

### III. ATMOSPHERIC ELECTRICITY

Atmospheric electricity data have been published since 1962. Table I contains the hourly average values of the potential gradient expressed in V/m. Hourly averages have been taken only from hours having a recording period of 30 minutes or more. If values were available only for part of an hour the average is entered in square brackets [ ]. These data have been used in the determination of the monthly and daily means. Values uncertain for some reason are entered in round brackets ( ) and have not been used in calculating of monthly and daily means. Daily means of each day with 24 hours of recording are entered. However, loss of a maximum of one hour's data out of twelve (for example, on account of instrument maintenance or calibration) has not precluded entering this mean value. In hours marked by S the value of the potential gradient exceeded permanently or several times the measuring limits of the equipment making the determination of an hourly average impossible. The directions of the deviations are marked by signs.

Table II gives the hourly means of the quantities of positive and negative charges transported by point-discharge for each month. The values are expressed in  $10^{-6}$  Asec/hour.

All data are presented in universal time (GMT).

Tables were compiled by F. MÁRCZ. Both the equipments and the methods of measurement of potential gradient and point-discharge have been described in the paper by P. BENCZE and F. MÁRCZ: „Atmosphärisch-elektrische und ionosphärische Messungen im Observatorium bei Nagycenk”. Observatoriumsberichte des Geophysikalischen Forschungslaboratoriums der Ungarischen Akademie der Wissenschaften vom Jahre 1966, Sopron, 1967. Further informations are given by P. BENCZE and F. MÁRCZ: „The Geophysical Observatory near Nagycenk. II. Atmospheric electric and ionospheric measurements” Acta Geod. Geoph. Moont. Hung. 16, 1981, 353-357.



I.

*Hourly means of the potential gradient*

January

| Hour GMT<br>Day   | 0   | 1    | 2    | 3    | 4    | 5    | 6    | 7     | 8     | 9     | 10    | 11    | 12    |
|-------------------|-----|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| 1.                | 0   | 30   | 90   | 30   | 60   | 60   | 60   | 100   | [140] | 150   | 170   | +S    | 30    |
| 2.                | 30  | -50  | 0    | 30   | -20  | 30   | 10   | 20    | 10    | 30    | [40]  | 60    | 90    |
| 3.                | 90  | 80   | 70   | 70   | 80   | 40   | 60   | 60    | 40    | 70    | 140   | 140   | [190] |
| 4.                | 140 | 110  | 20   | 70   | 20   | 20   | 80   | [110] | —     | 130   | 190   | 160   | 160   |
| 5.                | 50  | 80   | 50   | 60   | 110  | 140  | 120  | 140   | 170   | 150   | [140] | 150   | 140   |
| 6.                | -90 | 10   | 50   | 90   | 90   | 90   | 110  | 110   | 130   | 140   | [120] | 120   | 140   |
| 7.                | 70  | 60   | 50   | 40   | 40   | 60   | 80   | 110   | 90    | 70    | 70    | [60]  | 80    |
| 8.                | 130 | 130  | 140  | 160  | 140  | 110  | 130  | 150   | 180   | 150   | 180   | 150   | [190] |
| 9.                | 90  | 30   | -40  | -30  | 50   | -40  | 0    | 30    | 30    | 10    | [-30] | 80    | 30    |
| 10.               | +S  | 20   | 80   | 60   | 40   | 20   | 50   | 30    | -10   | 90    | [160] | 180   | 270   |
| 11.               | -70 | -80  | -80  | -60  | -30  | -40  | -60  | —     | —     | -60   | -40   | -50   | -40   |
| 12.               | -10 | -20  | -90  | -40  | -60  | -60  | -50  | 0     | -10   | -20   | -20   | -20   | [20]  |
| 13.               | 10  | -10  | -140 | -160 | -10  | 90   | -50  | -160  | -70   | 120   | 110   | 190   | [190] |
| 14.               | -80 | -110 | -10  | -90  | -110 | -160 | -140 | -190  | -130  | -120  | 30    | [-20] | -70   |
| 15.               | -40 | -40  | -50  | -40  | -60  | -100 | -70  | -90   | -70   | -50   | [-20] | -40   | 0     |
| 16.               | -70 | -50  | -50  | -40  | -80  | -30  | -70  | -50   | -50   | -60   | [-50] | -60   | 30    |
| 17.               | 100 | 80   | 100  | 80   | 120  | 80   | 90   | 0     | 20    | -30   | [0]   | +S    | -70   |
| 18.               | 20  | -110 | -80  | -50  | 0    | -30  | -20  | —     | —     | 20    | -10   | -20   | -10   |
| 19.               | 40  | 70   | 170  | 150  | 120  | 90   | 80   | 60    | 60    | 60    | [60]  | 40    | 100   |
| 20.               | 10  | 40   | 50   | 50   | 60   | 50   | 60   | 70    | 70    | 100   | [70]  | 20    | 10    |
| 21.               | -50 | -60  | -40  | -20  | -10  | 20   | 30   | 30    | 10    | 20    | [0]   | 30    | 10    |
| 22.               | 70  | 60   | 60   | 70   | 60   | 60   | 80   | 80    | 70    | 90    | 70    | [110] | 130   |
| 23.               | 40  | 50   | 50   | 60   | 70   | 50   | 70   | 40    | 80    | 50    | [70]  | 100   | 130   |
| 24.               | 90  | 70   | 80   | 80   | 80   | 110  | 130  | 140   | 120   | [100] | 40    | 60    | 150   |
| 25.               | 120 | 150  | 110  | 140  | 130  | 140  | 130  | 70    | —     | [60]  | 80    | 100   | 160   |
| 26.               | -30 | -40  | -40  | -20  | 0    | -10  | -60  | -50   | -50   | -70   | [-60] | -60   | -60   |
| 27.               | 0   | 30   | 20   | 0    | 20   | 30   | 50   | 60    | 50    | 70    | [60]  | 70    | 90    |
| 28.               | 100 | 70   | 30   | 90   | 100  | 70   | 30   | 60    | 60    | 80    | 30    | [40]  | 70    |
| 29.               | 30  | 30   | 10   | 20   | 30   | -20  | +S   | +S    | -50   | +S    | 50    | 30    | -50   |
| 30.               | 50  | 30   | 10   | +S   | +S   | 120  | 40   | -80   | -80   | -90   | 30    | 100   | -100  |
| 31.               | 40  | 40   | 30   | 20   | 20   | 50   | 50   | 70    | 80    | [+S]  | —     | 30    | 40    |
| Means             | 29  | 23   | 21   | 27   | 35   | 33   | 34   | 33    | 33    | 43    | 56    | 60    | 66    |
| Number<br>of days | 30  | 31   | 31   | 30   | 30   | 31   | 30   | 28    | 27    | 29    | 30    | 29    | 31    |

| 13   | 14  | 15  | 16  | 17  | 18   | 19   | 20  | 21  | 22  | 23   | Daily means |
|------|-----|-----|-----|-----|------|------|-----|-----|-----|------|-------------|
| —160 | 30  | —10 | 20  | 30  | —10  | 60   | +S  | —50 | +S  | —120 | —           |
| 110  | 100 | 90  | 90  | 100 | 110  | 110  | 120 | 100 | 100 | 90   | 58          |
| [+S] | 180 | 230 | 240 | 170 | 140  | 180  | 190 | 150 | 140 | 130  | 125         |
| 150  | 150 | 120 | 170 | 110 | 110  | 160  | 140 | 150 | 130 | 70   | 116         |
| 170  | 180 | 150 | 190 | 180 | 170  | 130  | 120 | 80  | 30  | —30  | 120         |
| 140  | 120 | 50  | 40  | 60  | 110  | 120  | 140 | 140 | 110 | 90   | 93          |
| 80   | 90  | 130 | 110 | 120 | 110  | 90   | 90  | 90  | 0   | 110  | 79          |
| 240  | 240 | 200 | 240 | +S  | +S   | 200  | 190 | 200 | 150 | 110  | —           |
| —30  | —40 | —70 | —10 | 70  | 40   | 70   | 80  | 0   | 110 | ±S   | 19          |
| 280  | +S  | +S  | +S  | +S  | 130  | 80   | —20 | —70 | —90 | —70  | —           |
| —20  | —10 | 40  | 40  | 30  | 30   | 40   | 20  | —30 | —10 | 20   | —           |
| 0    | —10 | 50  | 60  | 60  | 0    | 0    | 30  | 30  | 40  | —60  | —8          |
| 200  | 210 | 180 | 120 | 170 | +S   | +S   | 90  | 20  | —60 | 20   | —           |
| —50  | —60 | —40 | 0   | 20  | —30  | —80  | —20 | —60 | —80 | —80  | —70         |
| —30  | —30 | —60 | —60 | —30 | —10  | —50  | —50 | 60  | 10  | —50  | —38         |
| 70   | +S  | 60  | —90 | 40  | —60  | —50  | —30 | —30 | 40  | 40   | —29         |
| —10  | —60 | 80  | 70  | —80 | —110 | —100 | —70 | —50 | 0   | 20   | 11          |
| 50   | 80  | 110 | 80  | 110 | 60   | 50   | 60  | 110 | 50  | 170  | —           |
| 70   | 80  | 80  | 110 | 50  | 50   | 60   | 70  | 60  | 10  | —10  | 72          |
| 20   | 30  | 90  | —60 | 0   | 50   | —50  | —50 | —50 | 0   | —10  | 26          |
| 20   | 0   | 0   | 10  | 10  | 40   | 30   | 30  | 80  | 80  | 100  | 15          |
| 140  | 100 | 90  | 90  | 50  | 60   | 30   | 50  | 40  | 40  | 50   | 73          |
| 160  | 150 | 150 | 130 | 120 | 90   | 120  | 150 | 130 | 130 | 90   | 95          |
| 80   | 70  | 70  | 90  | 70  | 40   | 50   | 30  | 40  | 40  | 50   | 78          |
| 130  | 160 | 110 | 90  | 60  | 10   | 30   | 0   | —50 | —20 | —40  | 81          |
| —20  | 0   | —40 | —90 | —60 | —20  | —10  | —20 | —10 | 0   | 0    | —34         |
| 100  | 120 | 130 | 100 | 110 | 120  | 160  | 130 | 170 | 110 | 90   | 79          |
| 120  | 90  | 80  | 70  | 90  | 80   | 70   | 60  | 40  | 50  | 40   | 68          |
| 10   | —   | ±S  | 70  | 100 | 100  | 100  | 100 | 90  | 80  | 50   | —           |
| 100  | 0   | 40  | 30  | 20  | 30   | 60   | 50  | 50  | 40  | 40   | —           |
| 80   | 90  | 90  | 100 | 100 | 100  | 70   | 70  | 60  | 60  | 60   | —           |
| 67   | 74  | 76  | 68  | 65  | 53   | 58   | 58  | 48  | 43  | 32   |             |
| 30   | 28  | 29  | 30  | 29  | 29   | 30   | 30  | 31  | 30  | 30   |             |

| February          |     |      |      |     |     |     |     |       |      |       |       |       |      |
|-------------------|-----|------|------|-----|-----|-----|-----|-------|------|-------|-------|-------|------|
| Hour GMT<br>Day   | 0   | 1    | 2    | 3   | 4   | 5   | 6   | 7     | 8    | 9     | 10    | 11    | 12   |
| 1.                | 60  | 50   | 50   | 50  | 50  | 60  | 60  | [70]  | —    | 80    | 80    | 90    | 90   |
| 2.                | 60  | 50   | 40   | 30  | 40  | 40  | 50  | 50    | 70   | 50    | [60]  | 50    | 60   |
| 3.                | 60  | 70   | 60   | 50  | 80  | 90  | 100 | 120   | 130  | 120   | [110] | 120   | 130  |
| 4.                | 80  | 70   | 60   | 60  | 50  | 50  | 10  | 40    | 60   | 90    | [80]  | 90    | 70   |
| 5.                | —50 | —20  | 10   | 40  | 70  | 30  | 20  | 30    | [40] | 30    | 40    | 70    | 100  |
| 6.                | 130 | 90   | —10  | 160 | 120 | 160 | +S  | +S    | 170  | 200   | [170] | +S    | +S   |
| 7.                | 0   | —90  | 40   | 0   | 30  | 80  | 140 | 160   | 170  | [120] | 110   | 110   | 80   |
| 8.                | 100 | 70   | 100  | 110 | 100 | +S  | +S  | —     | —    | 200   | 180   | 160   | +S   |
| 9.                | ±S  | ±S   | 30   | 30  | 30  | 30  | 80  | 90    | 100  | 90    | [80]  | 90    | 110  |
| 10.               | 150 | 140  | 140  | 140 | 120 | 130 | 130 | 180   | 170  | 170   | 130   | [160] | 130  |
| 11.               | 10  | 0    | —50  | —90 | —30 | —50 | —60 | —50   | —40  | —40   | —20   | [—10] | —20  |
| 12.               | —20 | —40  | —70  | —40 | —50 | 30  | 0   | 10    | 30   | 60    | [40]  | 130   | 70   |
| 13.               | 120 | 60   | 60   | 80  | 90  | 100 | 90  | 70    | 30   | [30]  | —20   | —20   | 20   |
| 14.               | 40  | 10   | —10  | —30 | —40 | 10  | 10  | 20    | —20  | [10]  | —20   | 10    | —60  |
| 15.               | —50 | 0    | —10  | —20 | —10 | 40  | 20  | [—70] | —    | [—60] | —50   | —70   | —50  |
| 16.               | —30 | —60  | —50  | —30 | —20 | —30 | 20  | 20    | [10] | 30    | 30    | 40    | 60   |
| 17.               | 40  | 30   | 40   | 20  | —20 | 0   | 40  | 40    | —    | —     | —     | 30    | [80] |
| 18.               | 50  | 50   | 50   | 70  | 80  | 80  | 40  | 90    | 70   | 40    | 70    | [70]  | 90   |
| 19.               | —40 | 40   | 10   | 30  | 50  | 40  | 40  | 30    | 60   | 70    | [90]  | 100   | 130  |
| 20.               | 40  | 50   | 40   | 50  | 40  | 50  | 80  | 90    | 160  | 150   | [130] | 130   | 130  |
| 21.               | 50  | 60   | 80   | 30  | 60  | 40  | 40  | 60    | 100  | 150   | 180   | [180] | 170  |
| 22.               | 110 | 80   | 80   | 130 | 140 | 60  | 50  | +S    | —    | +S    | +S    | +S    | +S   |
| 23.               | 10  | —110 | —130 | —50 | 30  | 10  | —60 | 30    | 30   | 70    | [20]  | —10   | 10   |
| 24.               | 10  | —70  | 30   | 70  | 50  | 60  | 70  | 120   | 110  | 90    | 100   | 80    | 80   |
| 25.               | 140 | 80   | 100  | —10 | 30  | —40 | —30 | 70    | 70   | 50    | [30]  | 10    | 100  |
| 26.               | 30  | 30   | 30   | 10  | —20 | 0   | —20 | —10   | 50   | 50    | 50    | 40    | 80   |
| 27.               | 20  | 20   | 20   | 40  | 50  | 40  | 50  | 60    | 80   | [90]  | 120   | 120   | 130  |
| 28.               | 80  | 60   | 70   | 60  | 80  | 90  | 120 | 130   | +S   | [+S]  | +S    | 200   | 200  |
| Means             | 44  | 27   | 29   | 35  | 43  | 44  | 42  | 58    | 75   | 78    | 72    | 76    | 80   |
| Number<br>of days | 27  | 27   | 28   | 28  | 28  | 27  | 26  | 25    | 22   | 25    | 25    | 26    | 25   |

| 13    | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | Daily means |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------|
| 100   | 80  | 80  | 80  | 110 | 120 | 110 | 100 | 80  | 70  | 50  | 77          |
| 70    | 60  | 60  | 70  | 80  | 90  | 80  | 70  | 60  | 60  | 50  | 58          |
| 120   | 120 | 120 | 110 | 100 | 110 | 120 | 120 | 150 | 80  | 70  | 103         |
| 70    | 60  | 50  | 60  | 70  | 50  | 40  | 40  | 30  | 0   | -50 | 51          |
| 90    | 80  | 90  | 90  | 60  | 30  | 40  | 20  | 30  | 120 | 110 | 49          |
| 130   | 170 | 160 | 160 | +S  | +S  | 210 | +S  | +S  | 110 | -30 | —           |
| 120   | 110 | 110 | 70  | 80  | 60  | 120 | 90  | 70  | 110 | 100 | 83          |
| 120   | 90  | 90  | 100 | 100 | 80  | 40  | 180 | 90  | 20  | 40  | —           |
| 130   | 130 | 140 | 170 | 170 | 140 | 180 | 180 | 200 | 140 | 140 | —           |
| 140   | 130 | 130 | 120 | 120 | 120 | 70  | 30  | 10  | -10 | 10  | 115         |
| 10    | 40  | 30  | 10  | 30  | 40  | 0   | 0   | -10 | -10 | -10 | -13         |
| 40    | 20  | -30 | 20  | 50  | 70  | 30  | 110 | 130 | 110 | 90  | 33          |
| 150   | 70  | -50 | 20  | -20 | -10 | 50  | 20  | -70 | 30  | -50 | 35          |
| -20   | -60 | -50 | -40 | -30 | 10  | 40  | -10 | 10  | -30 | -30 | -12         |
| 40    | -20 | -30 | -60 | -50 | -50 | -50 | -40 | -70 | -70 | -10 | -32         |
| 80    | 70  | 110 | 110 | 120 | 50  | 80  | 80  | 70  | 80  | 60  | 37          |
| 60    | 80  | 90  | 60  | 20  | -20 | 50  | 100 | 90  | 80  | 50  | —           |
| 130   | 110 | 150 | 120 | 80  | 110 | 80  | 30  | 60  | 20  | -10 | 71          |
| 170   | 160 | 140 | 140 | 130 | 120 | 110 | 30  | 30  | 100 | 20  | 79          |
| 180   | 170 | 160 | 110 | 130 | 170 | 130 | 80  | 60  | 40  | 30  | 100         |
| 170   | 170 | 150 | 170 | 240 | 180 | 130 | 130 | 110 | 100 | 100 | 119         |
| +S    | +S  | +S  | +S  | +S  | +S  | +S  | 140 | 70  | 10  | -40 | —           |
| 70    | 120 | 80  | 110 | 130 | 30  | 30  | 120 | 30  | 30  | 50  | 27          |
| [120] | 120 | 120 | 130 | 130 | 130 | 80  | 100 | 100 | 80  | 80  | 83          |
| 170   | 130 | -10 | -20 | 0   | 60  | 10  | 60  | 30  | 10  | 20  | 44          |
| 40    | 30  | 20  | 30  | 40  | 50  | 40  | 40  | 20  | -30 | -10 | 25          |
| 110   | 140 | 140 | 160 | 160 | 140 | 140 | 130 | 90  | 70  | 70  | 91          |
| 200   | 160 | 140 | 140 | 140 | 100 | —   | —   | —   | —   | —   | —           |
| 104   | 94  | 80  | 83  | 84  | 76  | 75  | 77  | 58  | 49  | 33  |             |
| 27    | 27  | 27  | 27  | 26  | 26  | 26  | 26  | 26  | 27  | 27  |             |

March

| Hour GMT<br>Day | 0   | 1   | 2   | 3   | 4   | 5   | 6    | 7    | 8    | 9    | 10   | 11   | 12    |
|-----------------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|-------|
| 1.              | —   | —   | —   | —   | —   | —   | —    | —    | —    | 130  | 140  | 120  | 130   |
| 2.              | 20  | —   | —   | —   | —   | —   | —30  | 30   | 0    | —20  | +S   | +S   | 30    |
| 3.              | 50  | 40  | 40  | 50  | 50  | 70  | 100  | 90   | 100  | 110  | [80] | 90   | 100   |
| 4.              | 70  | 70  | 60  | 60  | 70  | 100 | 90   | 80   | 90   | 80   | [70] | 70   | 80    |
| 5.              | 20  | 10  | 10  | 20  | 30  | 30  | 30   | 40   | 50   | 50   | [50] | 70   | 70    |
| 6.              | 10  | 10  | 30  | 20  | 30  | 30  | 50   | 80   | 30   | 100  | [80] | 90   | 110   |
| 7.              | —10 | —30 | —30 | —40 | —30 | 10  | 30   | 50   | 0    | 50   | [80] | 70   | 80    |
| 8.              | 50  | 50  | 40  | 50  | 50  | 50  | 40   | —    | —    | 50   | 50   | 40   | 40    |
| 9.              | —20 | —10 | —10 | —20 | —40 | —30 | 0    | 20   | 40   | 50   | 60   | [70] | 60    |
| 10.             | 30  | 30  | 40  | 50  | 50  | 50  | 50   | 70   | 80   | 60   | [50] | 50   | 50    |
| 11.             | 50  | 50  | 50  | +S  | —S  | 40  | 40   | 30   | +S   | —S   | [50] | —10  | 10    |
| 12.             | 60  | —   | —   | 50  | 50  | 60  | 80   | 80   | 60   | 70   | [70] | 80   | 80    |
| 13.             | —20 | 10  | 20  | 20  | 50  | 70  | 80   | 60   | 50   | [30] | 60   | 60   | 70    |
| 14.             | 40  | 50  | 40  | 50  | 50  | 50  | 60   | 60   | 40   | +S   | —S   | [+S] | 70    |
| 15.             | 50  | 50  | 50  | 50  | 50  | 50  | 50   | —    | —    | 80   | 80   | 100  | 110   |
| 16.             | 0   | 0   | 20  | —10 | 10  | 20  | 20   | 20   | 40   | 60   | 70   | 90   | [100] |
| 17.             | —30 | —40 | —20 | 10  | 40  | —10 | —10  | 10   | 20   | 50   | 60   | [60] | 70    |
| 18.             | 50  | 40  | 40  | 30  | 20  | 10  | —10  | 10   | 40   | 40   | [30] | 60   | 90    |
| 19.             | +S  | +S  | +S  | +S  | +S  | +S  | 90   | 130  | 110  | 80   | [50] | 30   | 40    |
| 20.             | 50  | 50  | 50  | 50  | 50  | 50  | 50   | 50   | [50] | 50   | 50   | 50   | 50    |
| 21.             | 40  | 40  | 50  | 60  | 50  | 40  | 40   | 40   | 40   | [50] | 60   | 70   | 70    |
| 22.             | 30  | 30  | 40  | 50  | 50  | 70  | 70   | —    | —    | 80   | 60   | 50   | 20    |
| 23.             | 40  | 30  | 30  | 30  | 40  | 60  | 60   | 90   | 80   | 70   | [80] | 80   | 90    |
| 24.             | 40  | 40  | 30  | 20  | 30  | 40  | 60   | [60] | 70   | 80   | 90   | 90   | 100   |
| 25.             | 60  | 50  | 50  | 50  | 50  | 60  | 60   | 70   | [80] | 80   | 90   | 70   | 80    |
| 29.             | 30  | 30  | —20 | +S  | +S  | +S  | [30] | —    | 50   | 50   | —S   | +S   | +S    |
| 27.             | 40  | 40  | 40  | 30  | 20  | 0   | 20   | 60   | [90] | 100  | 100  | 110  | 120   |
| 28.             | —10 | —40 | 20  | 20  | 20  | —10 | 10   | 40   | 60   | [60] | 70   | 70   | 80    |
| 29.             | 30  | 30  | —20 | +S  | +S  | +S  | [30] | —    | 50   | 50   | —S   | +S   | +S    |
| 30.             | 40  | 60  | 40  | 60  | 50  | 30  | 70   | 100  | 100  | [90] | 80   | 70   | 50    |
| 31.             | 100 | 50  | 10  | —   | 30  | 30  | +S   | +S   | +S   | 30   | 30   | 10   | 10    |
| Means           | 32  | 27  | 28  | 31  | 35  | 37  | 43   | 57   | 59   | 64   | 68   | 67   | 72    |

Number  
of days

29 27 27 25 26 27 29 25 25 29 28 28 30

MAGYAR  
TUDOMÁNYOS AKADÉMIA  
KÖNYVTÁRA

| 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | Daily means |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------|
| 170 | 160 | 130 | 130 | 130 | 120 | 100 | 90  | 70  | 70  | 20  | —           |
| 40  | 50  | 50  | 60  | 70  | 70  | 60  | 50  | 50  | 40  | 40  | —           |
| 100 | 90  | 80  | 90  | 90  | 90  | 90  | 90  | 90  | 80  | 70  | 80          |
| 60  | 70  | 80  | 60  | 50  | 50  | 50  | 50  | 40  | 30  | 30  | 65          |
| 80  | 110 | 110 | 120 | 120 | 100 | 100 | 70  | 90  | 80  | —30 | 60          |
| 120 | 120 | 110 | 100 | 80  | 60  | —10 | —30 | —40 | —30 | —20 | 49          |
| 80  | 80  | 70  | 60  | 50  | 50  | 50  | 50  | 50  | 40  | 40  | 35          |
| 50  | 70  | 50  | 50  | 50  | 50  | 50  | 10  | 10  | 30  | 10  | —           |
| 80  | 70  | 70  | 60  | 50  | 40  | 30  | 50  | 50  | 40  | 30  | 31          |
| 60  | 50  | 60  | 50  | 50  | 40  | —10 | 0   | 40  | 50  | 50  | 46          |
| 50  | 50  | 50  | 70  | 70  | 90  | 70  | 70  | 90  | 90  | 70  | —           |
| 90  | 100 | 60  | 50  | 50  | 50  | 30  | 0   | 50  | 50  | 50  | —           |
| 80  | 100 | 100 | 90  | 80  | 110 | 100 | 100 | 50  | 40  | 40  | 60          |
| 90  | 110 | 110 | 110 | 80  | 90  | 80  | 70  | 70  | 50  | 40  | —           |
| 100 | 80  | 70  | 50  | 50  | 60  | 60  | 40  | 30  | 20  | 10  | —           |
| 90  | 80  | 70  | 70  | 50  | 20  | —10 | —40 | —10 | 0   | 0   | 32          |
| 50  | 50  | 50  | 50  | 50  | 40  | 0   | 10  | 30  | 30  | 50  | 26          |
| 60  | 60  | 60  | —60 | +S  | +S  | +S  | 30  | —30 | 20  | —60 | —           |
| 50  | 50  | 50  | 50  | 60  | 70  | 50  | 60  | 50  | 40  | 50  | —           |
| 50  | 50  | 60  | 50  | 50  | 50  | 40  | 40  | 60  | 50  | 40  | 50          |
| 80  | 70  | 70  | 60  | 60  | 50  | 50  | 40  | 30  | —10 | 20  | 49          |
| +S  | +S  | +S  | 60  | 40  | 30  | 50  | 60  | 60  | 60  | 50  | —           |
| 90  | 100 | 90  | 90  | 80  | 100 | 90  | 90  | 90  | 60  | 40  | 71          |
| 100 | 110 | 110 | 100 | 120 | 100 | 100 | 80  | 100 | 80  | 60  | 75          |
| 90  | 100 | 100 | 100 | 90  | 60  | 60  | 50  | 40  | 40  | 50  | 68          |
| 100 | 100 | 90  | 90  | 80  | 80  | 80  | 60  | 60  | 60  | 50  | 61          |
| 100 | 60  | 40  | 30  | 30  | 50  | 30  | 20  | —10 | —50 | —20 | 44          |
| 60  | 50  | 30  | 40  | 40  | 50  | 40  | 40  | 40  | 40  | 30  | 35          |
| +S  | 50  | 40  | 60  | 70  | 70  | 40  | 40  | 30  | 30  | 40  | —           |
| 60  | 60  | 80  | 70  | 60  | 110 | 70  | 90  | 70  | 70  | 90  | 70          |
| 20  | 10  | 10  | 10  | 30  | 30  | —10 | —40 | —40 | —50 | —60 | —           |
| 78  | 77  | 72  | 65  | 66  | 66  | 51  | 43  | 42  | 37  | 28  |             |
| 29  | 30  | 30  | 31  | 30  | 30  | 30  | 31  | 31  | 31  | 31  |             |

April

| Hour GMT<br>Day   | 0       | 1       | 2       | 3   | 4       | 5       | 6       | 7       | 8     | 9     | 10      | 11      | 12      |
|-------------------|---------|---------|---------|-----|---------|---------|---------|---------|-------|-------|---------|---------|---------|
| 1.                | -70     | -30     | 30      | 40  | 20      | 30      | -10     | -10     | -30   | -10   | -20     | -10     | 30      |
| 2.                | 20      | 20      | 20      | 30  | 30      | 30      | 70      | 70      | 70    | [50]  | 80      | 70      | 70      |
| 3.                | 50      | 60      | 30      | 40  | 60      | 70      | 50      | [60]    | 70    | 80    | 80      | 90      | 80      |
| 4.                | 20      | 10      | 20      | 30  | 30      | 30      | 40      | 50      | 60    | [30]  | 70      | 60      | 60      |
| 5.                | 40      | 40      | 30      | 40  | 40      | 50      | —       | —       | 80    | 80    | 60      | 50      | 70      |
| 6.                | 40      | 20      | -10     | -30 | -50     | -10     | 60      | 60      | 70    | [70]  | 80      | 80      | 80      |
| 7.                | 40      | 40      | 0       | -30 | -10     | 10      | 10      | $\pm S$ | -S    | -S    | 40      | 0       | 30      |
| 8.                | 40      | 40      | 40      | 20  | 20      | 30      | 40      | 40      | [80]  | 80    | 80      | 70      | 80      |
| 9.                | $\pm S$ | 70      | $\pm S$ | 70  | 50      | $\pm S$ | 70      | 20      | 90    | [80]  | 70      | 70      | 80      |
| 10.               | 0       | -20     | 30      | 40  | 50      | 70      | 70      | 100     | 70    | [70]  | 60      | 30      | 50      |
| 11.               | $\pm S$ | $\pm S$ | $\pm S$ | 40  | 50      | 60      | 70      | 60      | [50]  | 40    | 30      | 50      | -20     |
| 12.               | 60      | 50      | 50      | 50  | 60      | 80      | 80      | [30]    | 80    | 90    | 80      | 90      | 90      |
| 13.               | 20      | 10      | 20      | 30  | 30      | 40      | —       | —       | 60    | 40    | 30      | 30      | 40      |
| 14.               | 50      | 50      | 50      | 40  | 60      | 40      | 40      | 40      | 70    | [90]  | 90      | 110     | 150     |
| 15.               | 90      | 90      | 100     | 100 | 100     | 100     | 100     | 100     | 90    | [100] | 100     | 100     | 110     |
| 16.               | 70      | 60      | 70      | 100 | 90      | 80      | 80      | 90      | 100   | [100] | 120     | 160     | 150     |
| 17.               | 90      | 90      | 90      | 80  | 70      | 90      | 90      | 90      | 110   | [100] | 100     | 90      | 70      |
| 18.               | 10      | 40      | 50      | 10  | -10     | -10     | 20      | 70      | 80    | [70]  | $\pm S$ | $\pm S$ | $\pm S$ |
| 19.               | 0       | 50      | 30      | -40 | -40     | 0       | [0]     | —       | 120   | 90    | $\pm S$ | $\pm S$ | $\pm S$ |
| 20.               | 60      | 60      | 50      | 50  | 60      | 70      | [60]    | 70      | 80    | 50    | 60      | 70      | $\pm S$ |
| 21.               | 80      | 80      | 60      | 60  | 60      | 70      | 80      | 100     | 80    | [80]  | 60      | 60      | 40      |
| 22.               | $\pm S$ | $\pm S$ | $\pm S$ | 0   | 0       | 60      | 80      | 90      | 80    | [70]  | 30      | 90      | 90      |
| 23.               | 70      | $\pm S$ | 40      | 50  | 30      | 70      | 70      | 60      | 70    | [70]  | 60      | 70      | 70      |
| 24.               | 30      | 20      | 20      | 20  | 20      | 40      | 50      | 50      | [70]  | 60    | 60      | 50      | 60      |
| 25.               | -20     | -60     | -10     | -20 | -50     | 0       | 20      | 40      | 50    | [50]  | 40      | 40      | 40      |
| 26.               | 40      | 40      | 40      | 40  | 30      | 40      | —       | —       | 50    | 50    | 60      | 60      | 40      |
| 27.               | 60      | 50      | 40      | 70  | $\pm S$ | $\pm S$ | $\pm S$ | 80      | 90    | [90]  | $\pm S$ | 40      | 30      |
| 28.               | 60      | 60      | 60      | 70  | 80      | 90      | 90      | 80      | 70    | [70]  | 80      | (70)    | 70      |
| 29.               | -30     | -30     | -10     | -20 | -10     | 30      | 70      | 70      | [100] | 90    | 60      | 80      | 70      |
| 30.               | 60      | 30      | 30      | -40 | 10      | 50      | 80      | 90      | 70    | [50]  | 40      | 30      | 30      |
| Means             | 36      | 35      | 36      | 31  | 30      | 47      | 57      | 66      | 73    | 69    | 66      | 64      | 65      |
| Number<br>of days | 27      | 27      | 27      | 30  | 29      | 28      | 26      | 25      | 29    | 29    | 27      | 27      | 27      |

| 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | Daily means |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------|
| 53  | 40  | 40  | 40  | 40  | 50  | 50  | 30  | 30  | 30  | 30  | 15          |
| 53  | 60  | 50  | 60  | 70  | 40  | 40  | 50  | 30  | 30  | 40  | 48          |
| 70  | 70  | 60  | 50  | 50  | 40  | 40  | 40  | 40  | 30  | 10  | 55          |
| 60  | 70  | 90  | 100 | 100 | 90  | 80  | 60  | 50  | 40  | 30  | 55          |
| 70  | 50  | 60  | 60  | 40  | 60  | 60  | 30  | 20  | 40  | 40  | —           |
| 70  | 60  | 60  | 70  | 60  | 70  | 50  | 50  | 60  | 50  | 40  | 46          |
| 30  | +S  | +S  | 90  | 40  | 30  | 50  | 40  | 60  | 50  | 50  | —           |
| 100 | 80  | 60  | 80  | 120 | 110 | 70  | 40  | ±S  | +S  | ±S  | —           |
| 90  | 90  | 90  | 120 | 90  | 150 | 90  | 60  | 50  | 40  | 30  | —           |
| 40  | 40  | 50  | 80  | —S  | 50  | 60  | 40  | 40  | 60  | 50  | 49          |
| +S  | +S  | 50  | 80  | 60  | 10  | 30  | ±S  | ±S  | 10  | 30  | —           |
| 60  | 50  | 90  | 80  | 60  | 40  | —S  | ±S  | ±S  | —S  | —10 | —           |
| 40  | 40  | 30  | 10  | 40  | 60  | 30  | 30  | 40  | 50  | 70  | —           |
| 160 | 160 | 160 | 130 | 130 | 120 | 160 | 130 | 110 | 100 | 90  | 97          |
| 110 | 100 | 100 | 100 | 60  | 60  | 70  | 80  | 70  | 60  | 50  | 89          |
| 150 | 160 | 160 | 120 | 80  | 80  | 80  | 70  | 60  | 80  | 80  | 100         |
| 60  | 60  | 60  | ±S  | —S  | ±S  | —30 | 10  | 10  | —10 | —10 | —           |
| 10  | 10  | —S  | 30  | 30  | 110 | 80  | 40  | 30  | 30  | 0   | —           |
| ±S  | +S  | 80  | 100 | 60  | 30  | 80  | 90  | 70  | 70  | 50  | —           |
| 130 | 40  | 60  | 70  | 90  | 80  | 100 | 120 | 110 | 100 | 70  | 74          |
| 40  | 80  | 90  | 110 | 120 | 120 | 80  | 60  | 60  | 50  | 40  | 73          |
| 90  | 120 | 110 | 100 | 90  | 110 | 0   | —20 | —50 | —90 | 40  | —           |
| 60  | 60  | 60  | 70  | 60  | 40  | 50  | 40  | 20  | 50  | 50  | 56          |
| 60  | 60  | 70  | 60  | 70  | 70  | 60  | 70  | 60  | 60  | 50  | 52          |
| 50  | 50  | 40  | 40  | 40  | 30  | 30  | 40  | 50  | 60  | 50  | 25          |
| 40  | 10  | 20  | 40  | 20  | 0   | ±S  | 30  | 40  | ±S  | +S  | —           |
| 20  | 0   | —40 | 20  | 30  | 60  | 50  | 70  | 80  | 80  | 70  | —           |
| 80  | 60  | 70  | 60  | 50  | 50  | 50  | 50  | 40  | 30  | 0   | 62          |
| 70  | 70  | 50  | 60  | 80  | 60  | 70  | 80  | 70  | 50  | 50  | 50          |
| 40  | 40  | 40  | 50  | 40  | 50  | 50  | 50  | 50  | 50  | 40  | 43          |
| 67  | 64  | 66  | 72  | 65  | 64  | 58  | 53  | 48  | 44  | 40  |             |
| 28  | 27  | 28  | 29  | 28  | 29  | 28  | 28  | 27  | 27  | 28  |             |

May

| Hour GMT<br>Day   | 0       | 1   | 2       | 3   | 4  | 5       | 6       | 7       | 8           | 9    | 10   | 11      | 12      |
|-------------------|---------|-----|---------|-----|----|---------|---------|---------|-------------|------|------|---------|---------|
| 1.                | 40      | 40  | 40      | 40  | 40 | 40      | +S      | +S      | +S          | 80   | +S   | $\pm S$ | $\pm S$ |
| 2.                | 40      | 50  | 50      | 40  | 40 | 80      | 40      | 60      | 80          | [80] | 70   | 80      | 80      |
| 3.                | 20      | 20  | 20      | 30  | 40 | 50      | 60      | —       | 70          | 70   | 60   | 70      | 70      |
| 4.                | 50      | 50  | 40      | 60  | 60 | 80      | 70      | 70      | [70]        | 60   | 50   | 40      | 30      |
| 5.                | 30      | 30  | 40      | 40  | 50 | 50      | 40      | 40      | 40          | [10] | —10  | —20     | 10      |
| 6.                | 60      | 80  | 70      | 70  | 70 | 50      | 50      | 40      | [50]        | 50   | 40   | 30      | 30      |
| 7.                | 40      | 30  | 40      | 50  | 40 | 60      | 50      | 50      | [50]        | 50   | —S   | $\pm S$ | $\pm S$ |
| 8.                | 40      | 40  | 40      | 40  | 30 | 30      | 40      | 40      | [—20]       | —30  | 10   | 10      | 30      |
| 9.                | 40      | 30  | 30      | 30  | 0  | —10     | 30      | 30      | 30          | [10] | 10   | 30      | —       |
| 10.               | 50      | 50  | 50      | 50  | 50 | 60      | [30]    | —       | 50          | 50   | 50   | 80      | 60      |
| 11.               | +S      | +S  | $\pm S$ | +S  | +S | $\pm S$ | $\pm S$ | —S      | —S          | [—S] | 10   | 20      | 70      |
| 12.               | 50      | 60  | 50      | 60  | 80 | 70      | 100     | 100     | 100         | 90   | 100  | 90      | 80      |
| 13.               | 0       | —20 | 10      | 30  | 20 | 20      | 70      | 80      | [100]       | 90   | 70   | 70      | 80      |
| 14.               | 30      | 20  | 10      | —10 | 0  | 20      | 40      | 60      | 70          | [70] | 70   | 70      | 60      |
| 15.               | 20      | 20  | 20      | 30  | 40 | 60      | 70      | 80      | 80          | [90] | 70   | 70      | 80      |
| 16.               | 30      | 20  | 20      | 20  | 30 | 30      | 40      | 30      | 30          | 30   | [30] | 30      | 30      |
| 17.               | 30      | 20  | 20      | 20  | 30 | 30      | 40      | —       | —           | 50   | 40   | 40      | 40      |
| 18.               | 40      | 30  | 30      | 40  | 40 | 40      | 60      | 60      | 50          | 50   | [50] | 50      | 40      |
| 19.               | 30      | 40  | 40      | 50  | 50 | 50      | 60      | 60      | 60          | [40] | 50   | 60      | 80      |
| 20.               | 40      | 40  | 40      | 40  | 40 | 50      | 40      | 60      | 60          | 80   | [90] | 100     | 110     |
| 21.               | 40      | 40  | 40      | 30  | 30 | 20      | +S      | $\pm S$ | [ $\pm S$ ] | 50   | 30   | 10      | 50      |
| 22.               | 20      | 30  | 20      | 30  | 30 | 50      | 50      | [50]    | 50          | 50   | 40   | 40      | 40      |
| 23.               | —       | —   | —       | —   | —  | —       | —       | —       | —           | —    | 30   | 0       | 20      |
| 24.               | 70      | 70  | 40      | 30  | 50 | 70      | 30      | —       | $\pm S$     | —S   | 20   | 50      | 30      |
| 25.               | 20      | 20  | 20      | 20  | 40 | 50      | 60      | 60      | 40          | 40   | [40] | 40      | 40      |
| 26.               | 20      | 20  | 10      | 10  | 10 | 30      | 30      | 50      | [70]        | 100  | 90   | 80      | 50      |
| 27.               | 30      | 30  | 30      | 30  | 30 | 40      | 40      | 40      | [40]        | 40   | 30   | 30      | 30      |
| 28.               | 20      | 20  | 20      | 20  | 30 | 40      | 30      | 30      | 40          | [30] | 30   | 30      | 40      |
| 29.               | $\pm S$ | —   | —       | —   | —  | $\pm S$ | 50      | 70      | 50          | 30   | —10  | 10      | 10      |
| 30.               | 30      | 40  | 20      | 10  | 10 | 20      | 40      | 40      | 30          | [40] | 20   | 60      | 50      |
| 31.               | 40      | 50  | 40      | 40  | 30 | 50      | 50      | —       | [50]        | 50   | 40   | 40      | 40      |
| Means             | 35      | 35  | 32      | 34  | 36 | 44      | 49      | 55      | 54          | 52   | 42   | 45      | 49      |
| Number<br>of days | 28      | 28  | 26      | 28  | 28 | 28      | 27      | 22      | 25          | 28   | 29   | 29      | 28      |

| 13   | 14  | 15  | 16  | 17   | 18  | 19  | 20  | 21  | 22  | 23 | Daily means |
|------|-----|-----|-----|------|-----|-----|-----|-----|-----|----|-------------|
| +S   | +S  | 90  | 80  | -140 | -80 | 120 | 100 | 90  | 100 | 40 | —           |
| 90   | 100 | 100 | 110 | 100  | 90  | 80  | 70  | 40  | 30  | 30 | 68          |
| 60   | 60  | 50  | 50  | 40   | 50  | 50  | 50  | 50  | 50  | 60 | 50          |
| 10   | 20  | 20  | 30  | 30   | 40  | 40  | 30  | 40  | 40  | 40 | 45          |
| 10   | 20  | 30  | 40  | 40   | 60  | 70  | 70  | 70  | 60  | 50 | 36          |
| 20   | 20  | 30  | 40  | 40   | 40  | 30  | 30  | 40  | 40  | 50 | 45          |
| ±S   | +S  | 10  | ±S  | 40   | 40  | 40  | 40  | 50  | 50  | 50 | —           |
| +S   | +S  | 90  | 100 | 100  | 130 | 40  | 100 | 70  | 40  | 20 | —           |
| (40) | 30  | 40  | 50  | 40   | 50  | 50  | 30  | -30 | 40  | 50 | —           |
| 70   | 70  | 30  | —   | 80   | 70  | 70  | 70  | 50  | 30  | 70 | 56          |
| 90   | 70  | 50  | 40  | 40   | 40  | 50  | 40  | 60  | 50  | 30 | —           |
| 70   | 70  | 70  | 80  | 80   | 100 | 60  | 60  | 50  | 30  | 20 | 72          |
| 80   | 80  | 80  | 70  | 70   | 80  | 50  | 20  | 20  | 40  | 30 | 52          |
| 60   | 70  | 70  | 70  | 60   | 40  | 70  | 50  | 30  | 20  | 10 | 44          |
| 90   | 90  | 80  | 70  | 60   | 80  | 60  | 30  | 30  | 20  | 30 | 58          |
| 30   | 30  | 30  | 30  | 30   | 30  | 40  | 30  | 30  | 30  | 30 | 30          |
| 40   | 50  | 50  | 50  | 50   | 40  | 40  | 40  | 40  | 40  | 40 | —           |
| -S   | -S  | 40  | 40  | 40   | 40  | 40  | 40  | 40  | 40  | 40 | —           |
| 80   | 70  | 40  | +S  | 70   | 50  | 60  | 60  | 50  | 50  | 40 | 54          |
| 120  | 120 | 90  | 60  | 60   | 50  | 40  | 30  | 40  | 50  | 30 | 62          |
| 60   | 50  | 50  | 40  | —    | —   | 40  | 40  | 20  | 10  | 20 | —           |
| 40   | 50  | ±S  | ±S  | -10  | —   | —   | —   | —   | —   | —  | —           |
| 30   | 30  | 10  | 20  | 30   | 30  | 40  | 40  | 50  | 70  | 70 | —           |
| 40   | 50  | 60  | 50  | 50   | 40  | 40  | 40  | 40  | 30  | 20 | —           |
| 50   | 70  | 60  | 60  | 70   | 70  | 60  | 70  | 60  | 40  | 30 | 47          |
| 50   | 40  | 50  | 40  | 40   | 40  | 40  | 30  | 20  | 20  | 30 | 40          |
| 30   | 30  | 40  | 40  | 30   | 30  | 20  | 20  | 30  | 20  | 20 | 31          |
| 40   | 30  | 40  | 50  | 50   | 30  | 0   | 0   | -50 | 0   | 40 | 25          |
| 0    | 40  | 60  | 70  | 60   | 60  | 40  | 30  | 20  | 10  | 30 | —           |
| 50   | 70  | 70  | 70  | 50   | 40  | 40  | 40  | 50  | 40  | 40 | 40          |
| 50   | 50  | 50  | 40  | 40   | 40  | 50  | 40  | 20  | 30  | 10 | 41          |
| 52   | 55  | 53  | 55  | 45   | 49  | 49  | 45  | 37  | 37  | 36 |             |
| 26   | 27  | 30  | 27  | 30   | 29  | 30  | 30  | 30  | 30  | 30 |             |

| June           |    |     |    |    |    |    |      |      |       |      |     |     |      |
|----------------|----|-----|----|----|----|----|------|------|-------|------|-----|-----|------|
| Hour GMT       | 0  | 1   | 2  | 3  | 4  | 5  | 6    | 7    | 8     | 9    | 10  | 11  | 12   |
| Day            |    |     |    |    |    |    |      |      |       |      |     |     |      |
| 1.             | 20 | 20  | 20 | 10 | 20 | 30 | 40   | 40   | 30    | [40] | 30  | 40  | 40   |
| 2.             | 10 | 20  | 20 | 20 | 20 | —  | —    | —    | —     | —    | —   | —   | —    |
| 3.             | 20 | 10  | 20 | 30 | 40 | —  | —    | —    | —     | —    | —   | —   | —    |
| 4.             | 10 | 10  | 10 | 20 | 20 | 40 | 40   | 40   | 30    | 20   | —   | 30  | 30   |
| 5.             | 10 | 10  | 0  | 10 | 10 | 10 | 10   | [20] | 20    | 20   | 20  | 20  | 20   |
| 6.             | 10 | 10  | 10 | 10 | 20 | 30 | 30   | 30   | 30    | [30] | 30  | 40  | 30   |
| 7.             | 30 | 20  | 20 | 20 | 20 | 20 | 30   | —    | [20]  | 20   | 30  | 30  | 30   |
| 8.             | 30 | 30  | 20 | 10 | 10 | 20 | 30   | [50] | 60    | 70   | 70  | 50  | 50   |
| 9.             | 0  | 0   | 20 | 20 | 20 | 20 | 30   | 30   | [30]  | [30] | 50  | 60  | 50   |
| 10.            | 30 | 40  | 40 | 30 | 30 | 60 | 70   | 90   | [70]  | [60] | 50  | 50  | 50   |
| 11.            | 30 | 30  | 30 | 30 | 30 | 30 | [30] | [30] | 40    | 30   | 40  | 40  | 30   |
| 12.            | 10 | 20  | 30 | +S | +S | 50 | 30   | 30   | [30]  | 30   | 30  | 30  | [±S] |
| 13.            | —  | —   | —  | —  | —  | —  | —    | —    | —     | —    | —   | —   | —    |
| 14.            | —  | —   | —  | —  | —  | —  | —    | —    | —     | —    | —   | —   | —    |
| 15.            | —  | —   | —  | —  | —  | —  | —    | —    | —     | —    | —   | —   | —    |
| 16.            | —  | —   | —  | —  | —  | —  | —    | —    | —     | —    | —   | —   | —    |
| 17.            | —  | —   | —  | —  | —  | —  | —    | —    | —     | —    | —   | —   | —    |
| 18.            | —  | —   | —  | —  | —  | —  | —    | —    | —     | —    | —   | —   | —    |
| 19.            | —  | —   | —  | —  | —  | ±S | —S   | 30   | [100] | +S   | 100 | +S  | 10   |
| 20.            | 30 | 30  | 20 | 20 | 30 | 60 | [70] | 30   | 40    | 50   | 10  | —10 | 40   |
| 21.            | 10 | 10  | 20 | 20 | 30 | 30 | 40   | —    | 60    | 50   | 50  | 50  | 50   |
| 22.            | 50 | 40  | 30 | 30 | 30 | 50 | 50   | [50] | 50    | 50   | 40  | +S  | —20  |
| 23.            | 20 | 20  | 10 | 20 | 40 | 50 | 50   | 50   | —     | 50   | 40  | 60  | ±S   |
| 24.            | +S | 100 | 80 | 80 | +S | ±S | 60   | 90   | 70    | [50] | 40  | 30  | 40   |
| 25.            | 40 | 30  | 40 | 30 | 30 | 50 | 60   | [60] | 60    | 40   | 20  | 20  | 20   |
| 26.            | 20 | 20  | 20 | 30 | 30 | 30 | 0    | 20   | [10]  | 20   | 20  | 30  | (50) |
| 27.            | —  | —   | —  | —  | —  | —  | —    | —    | —     | —    | —   | —   | —    |
| 28.            | —  | —   | —  | —  | —  | —  | —    | —    | —     | —    | —   | —   | —    |
| 29.            | —  | —   | —  | —  | —  | —  | —    | —    | —     | —    | —   | —   | —    |
| 30.            | —  | —   | —  | —  | —  | —  | —    | —    | —     | —    | —   | —   | —    |
| Means          | 21 | 25  | 24 | 24 | 25 | 36 | 39   | 43   | 44    | 39   | 39  | 36  | 31   |
| Number of days | 18 | 19  | 19 | 18 | 17 | 16 | 17   | 16   | 17    | 17   | 17  | 16  | 15   |

| 13   | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21  | 22 | 23 | Daily means |
|------|----|----|----|----|----|----|----|-----|----|----|-------------|
| 40   | 50 | 50 | 50 | 40 | 30 | 20 | 10 | 10  | 10 | 10 | 29          |
| —    | 30 | 30 | 30 | 30 | 30 | 20 | 20 | 10  | 10 | 10 | —           |
| —    | 20 | 20 | 20 | 20 | 10 | 10 | 10 | 0   | 10 | 10 | —           |
| 30   | 40 | 40 | 40 | 30 | 30 | 20 | 20 | 20  | 10 | 10 | 26          |
| 20   | 20 | 20 | 30 | 30 | 30 | 30 | 30 | 30  | 20 | 10 | 19          |
| 30   | 40 | 40 | 30 | 40 | 40 | 30 | 30 | 30  | 30 | 20 | 28          |
| 30   | 30 | +S | ±S | +S | 10 | 10 | 10 | —10 | 30 | 30 | —           |
| 50   | 40 | 50 | 50 | 40 | 30 | 20 | 0  | 0   | 0  | 0  | 33          |
| 40   | 40 | 40 | 50 | 40 | 30 | +S | ±S | +S  | 10 | 0  | —           |
| 60   | 60 | 70 | 60 | 70 | 60 | 40 | 50 | 30  | 30 | 30 | 51          |
| 30   | 30 | 30 | 30 | 30 | 30 | 20 | 20 | 20  | 20 | 10 | 29          |
| [±S] | 10 | —  | —  | —  | —  | —  | —  | —   | —  | —  | —           |
| —    | —  | —  | —  | —  | —  | —  | —  | —   | —  | —  | —           |
| —    | —  | —  | —  | —  | —  | —  | —  | —   | —  | —  | —           |
| —    | —  | —  | —  | —  | —  | —  | —  | —   | —  | —  | —           |
| —    | —  | —  | —  | —  | —  | —  | —  | —   | —  | —  | —           |
| —    | —  | —  | —  | —  | —  | —  | —  | —   | —  | —  | —           |
| —    | —  | —  | —  | —  | —  | —  | —  | —   | —  | —  | —           |
| 20   | 20 | +S | +S | 40 | 30 | 30 | 20 | 20  | 10 | 20 | —           |
| 20   | —S | 30 | 30 | 30 | 20 | 20 | 10 | 20  | 10 | 10 | 27          |
| +S   | 30 | —S | —S | ±S | 40 | 30 | 20 | 40  | 50 | 50 | —           |
| 40   | —S | 50 | 50 | 50 | 50 | 40 | 30 | 20  | 20 | 30 | 38          |
| —    | —  | +S | +S | +S | +S | +S | +S | +S  | +S | +S | —           |
| 30   | 30 | 40 | 40 | 40 | 40 | 40 | 30 | 30  | 30 | 30 | —           |
| 20   | 20 | 30 | 30 | 30 | 30 | 30 | 20 | 30  | 30 | 30 | 33          |
| 50   | 50 | 50 | ±S | ±S | —  | —  | —  | —   | —  | —  | —           |
| —    | —  | —  | —  | —  | —  | —  | —  | —   | —  | —  | —           |
| —    | —  | —  | —  | —  | —  | —  | —  | —   | —  | —  | —           |
| —    | —  | —  | —  | —  | —  | —  | —  | —   | —  | —  | —           |
| —    | —  | —  | —  | —  | —  | —  | —  | —   | —  | —  | —           |
| 34   | 33 | 39 | 39 | 37 | 32 | 26 | 21 | 19  | 19 | 18 |             |
| 15   | 17 | 15 | 14 | 15 | 17 | 16 | 16 | 16  | 17 | 17 |             |

| July           |     |     |     |    |     |      |      |      |       |      |     |    |    |
|----------------|-----|-----|-----|----|-----|------|------|------|-------|------|-----|----|----|
| Hour GMT       | 0   | 1   | 2   | 3  | 4   | 5    | 6    | 7    | 8     | 9    | 10  | 11 | 12 |
| Day            |     |     |     |    |     |      |      |      |       |      |     |    |    |
| 1.             | —   | —   | —   | —  | —   | —    | —    | —    | —     | —    | —   | —  | —  |
| 2.             | —   | —   | —   | —  | —   | —    | —    | —    | —     | —    | —   | —  | —  |
| 3.             | —   | —   | —   | —  | —   | —    | —    | —    | —     | —    | —   | —  | —  |
| 4.             | —   | —   | —   | —  | —   | —    | —    | —    | —     | —    | —   | —  | —  |
| 5.             | —   | —   | —   | —  | —   | —    | —    | —    | —     | —    | —   | —  | —  |
| 6.             | —   | —   | —   | —  | —   | —    | —    | —    | —     | —    | —   | —  | —  |
| 7.             | —   | —   | —   | —  | —   | —    | —    | —    | —     | —    | —   | —  | —  |
| 8.             | —   | —   | —   | —  | —   | —    | —    | —    | —     | —    | —   | —  | —  |
| 9.             | —   | —   | —   | —  | —   | —    | —    | —    | —     | —    | —   | —  | —  |
| 10.            | —   | —   | —   | —  | —   | —    | —    | —    | —     | —    | —   | —  | —  |
| 11.            | —   | —   | —   | —  | —   | —    | —    | —    | —     | —    | —   | —  | —  |
| 12.            | —   | —   | —   | —  | —   | —    | —    | —    | —     | —    | +S  | ±S | ±S |
| 13.            | —   | 20  | 10  | 60 | 60  | 70   | 70   | 60   | —     | —    | 100 | 80 | 60 |
| 14.            | 60  | 30  | 50  | 70 | 100 | 90   | 90   | 70   | [70]  | 70   | 40  | 40 | 50 |
| 15.            | 40  | 40  | 20  | 30 | 60  | 70   | 60   | 40   | 50    | [50] | 40  | 40 | 40 |
| 16.            | 30  | 60  | 60  | 70 | 110 | 90   | 60   | 110  | [110] | 80   | 70  | 60 | 50 |
| 17.            | 20  | 20  | 20  | 30 | 30  | 50   | 60   | [50] | 60    | 70   | 70  | 70 | 60 |
| 18.            | 30  | 20  | 30  | 30 | 30  | 30   | 40   | [40] | 50    | 40   | 30  | 30 | 60 |
| 19.            | 50  | 50  | 10  | 20 | 30  | 40   | —    | —    | 50    | 60   | 70  | 80 | 80 |
| 20.            | —20 | —50 | —50 | 0  | 20  | 40   | 70   | 80   | [80]  | 70   | 50  | 40 | 40 |
| 21.            | 30  | 30  | 30  | 30 | 40  | 50   | 60   | [70] | 50    | 50   | 50  | 40 | 40 |
| 22.            | 20  | 30  | 20  | 20 | 20  | 40   | 50   | 50   | 50    | [60] | 60  | 50 | 50 |
| 23.            | 50  | 40  | 30  | 40 | 30  | [40] | 70   | 60   | —     | —    | —   | —  | —  |
| 24.            | —   | —   | —   | —  | —   | —    | —    | —    | —     | —    | —   | —  | —  |
| 25.            | —   | —   | —   | —  | —   | —    | —    | —    | —     | —    | —   | —  | —  |
| 26.            | —   | —   | —   | —  | —   | —    | —    | —    | —     | —    | —   | —  | —  |
| 27.            | —   | —   | —   | —  | —   | —    | —    | —    | —     | 50   | 40  | 30 | 30 |
| 28.            | 50  | 50  | 50  | 40 | 50  | 40   | 50   | 60   | 40    | 40   | 70  | 80 | 80 |
| 29.            | 50  | 40  | 50  | 50 | 60  | 60   | [60] | —    | —     | 100  | 100 | 80 | 60 |
| 30.            | 50  | 50  | 50  | 60 | —   | —    | —    | —    | —     | —    | —   | —  | —  |
| 31.            | 50  | 40  | 40  | 30 | 40  | 40   | [40] | [40] | 40    | 40   | 40  | 20 | 30 |
| Means          | 36  | 31  | 28  | 39 | 49  | 54   | 60   | 61   | 59    | 60   | 59  | 53 | 52 |
| Number of days | 14  | 15  | 15  | 15 | 14  | 14   | 13   | 12   | 11    | 13   | 14  | 14 | 14 |

| 13 | 14 | 15 | 16 | 17 | 18  | 19 | 20 | 21 | 22  | 23  | Daily means |
|----|----|----|----|----|-----|----|----|----|-----|-----|-------------|
| —  | —  | —  | —  | —  | —   | —  | —  | —  | —   | —   | —           |
| —  | —  | —  | —  | —  | —   | —  | —  | —  | —   | —   | —           |
| —  | —  | —  | —  | —  | —   | —  | —  | —  | —   | —   | —           |
| —  | —  | —  | —  | —  | —   | —  | —  | —  | —   | —   | —           |
| —  | —  | —  | —  | —  | —   | —  | —  | —  | —   | —   | —           |
| —  | —  | —  | —  | —  | —   | —  | —  | —  | —   | —   | —           |
| —  | —  | —  | —  | —  | —   | —  | —  | —  | —   | —   | —           |
| —  | —  | —  | —  | —  | —   | —  | —  | —  | —   | —   | —           |
| —  | —  | —  | —  | —  | —   | —  | —  | —  | —   | —   | —           |
| —  | —  | —  | —  | —  | —   | —  | —  | —  | —   | —   | —           |
| —  | —  | —  | —  | —  | —   | —  | —  | —  | —   | —   | —           |
| 60 | 60 | 60 | 80 | —S | ±S  | +S | —  | —  | —   | —   | —           |
| 60 | 80 | 70 | 70 | 70 | 80  | 90 | 60 | 70 | 60  | 60  | —           |
| 40 | 30 | 30 | 20 | 30 | 40  | 40 | 60 | 40 | 60  | 50  | 53          |
| 40 | 30 | 30 | 30 | 40 | 40  | 40 | 40 | 30 | 30  | 30  | 40          |
| 30 | 20 | 30 | 30 | ±S | —S  | 40 | 40 | 30 | 30  | 20  | —           |
| 70 | ±S | +S | +S | +S | 40  | 30 | 30 | 30 | 30  | 20  | —           |
| 60 | 50 | 20 | 20 | 20 | 20  | ±S | —S | 10 | 60  | 100 | —           |
| 70 | 80 | 90 | 80 | 80 | 60  | 40 | 10 | 0  | —30 | —40 | —           |
| 50 | 40 | 40 | 50 | 50 | 40  | 50 | 40 | 40 | 30  | 30  | 35          |
| 0  | 10 | 80 | 40 | 50 | 40  | 40 | 50 | 50 | 30  | 20  | 41          |
| 70 | ±S | ±S | ±S | +S | 120 | 70 | 60 | 80 | 100 | 60  | —           |
| —  | —  | —  | —  | —  | —   | —  | —  | —  | —   | —   | —           |
| —  | —  | —  | —  | —  | —   | —  | —  | —  | —   | —   | —           |
| —  | —  | —  | —  | —  | —   | —  | —  | —  | —   | —   | —           |
| —  | —  | —  | —  | —  | —   | —  | —  | —  | —   | —   | —           |
| 30 | 50 | 60 | 60 | 50 | 50  | 50 | 50 | 50 | 50  | 50  | —           |
| 80 | 60 | 60 | 50 | 50 | 40  | 30 | 40 | 40 | 50  | 40  | 52          |
| 60 | 60 | 70 | 60 | 70 | 80  | 80 | 70 | 60 | 70  | 50  | —           |
| —  | —  | 60 | 50 | 50 | 50  | 50 | 50 | 50 | 50  | 50  | —           |
| 30 | 30 | 30 | 30 | 20 | ±S  | ±S | ±S | —  | —   | —   | —           |
| 50 | 46 | 52 | 48 | 48 | 54  | 50 | 46 | 41 | 44  | 39  |             |
| 15 | 13 | 14 | 14 | 12 | 13  | 13 | 13 | 14 | 14  | 14  |             |

August

| Hour GMT<br>Day   | 0  | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      | 11      | 12      |
|-------------------|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.                | —  | —       | —       | —       | —       | 130     | 110     | [100]   | [70]    | 80      | 80      | 80      | 50      |
| 2.                | 30 | 30      | 40      | 40      | 40      | 70      | [80]    | —       | [100]   | 80      | 80      | 70      | 80      |
| 3.                | 40 | 30      | 30      | 20      | 30      | 30      | 40      | [30]    | 30      | 10      | 40      | 40      | 50      |
| 4.                | 30 | 30      | 40      | $\pm 3$ | $\pm S$ | $\pm S$ | $\pm S$ | $\pm S$ | $\pm S$ | $\pm S$ | $\pm S$ | 80      | 60      |
| 5.                | —  | —       | —       | —       | —       | —       | —       | —       | 150     | 150     | 70      | 70      | 60      |
| 6.                | 30 | 30      | 30      | 30      | 30      | 40      | 50      | [50]    | [40]    | 50      | 80      | 70      | 60      |
| 7.                | 50 | 50      | 40      | 40      | $\pm S$ | $\pm S$ | $\pm S$ | [80]    | [70]    | 100     | 80      | 70      | $\pm S$ |
| 8.                | —  | —       | —       | —       | —       | —       | —       | —       | —       | 150     | 130     | 110     | 100     |
| 9.                | 40 | 40      | 40      | 40      | 40      | 80      | 140     | —       | [70]    | 60      | 40      | 40      | 50      |
| 10.               | 40 | 30      | 30      | 20      | 30      | [40]    | $\pm S$ | $\pm S$ | $\pm S$ | 50      | 80      | 80      | 90      |
| 11.               | 30 | 20      | 20      | 20      | 40      | 40      | 50      | [50]    | 70      | 70      | 80      | 80      | 80      |
| 12.               | 30 | 40      | 30      | 30      | 40      | 50      | [70]    | [40]    | 40      | 50      | 50      | 40      | 40      |
| 13.               | 50 | 50      | 50      | 60      | 80      | 100     | [110]   | [50]    | 50      | 50      | 40      | 40      | 40      |
| 14.               | 40 | 40      | 30      | 30      | 40      | 50      | [60]    | [60]    | 70      | 70      | 50      | 50      | 30      |
| 15.               | 50 | 30      | 20      | 20      | 20      | 30      | 40      | [40]    | [40]    | 40      | 40      | 40      | 40      |
| 16.               | 40 | $\pm S$ | $\pm S$ | 10      | 10      | 40      | 70      | —       | [60]    | 50      | 50      | 50      | 60      |
| 17.               | 40 | 30      | 30      | 40      | 50      | 40      | 50      | [50]    | 60      | 80      | $\pm S$ | $\pm S$ | $\pm S$ |
| 18.               | 70 | 60      | 50      | 60      | 50      | 70      | 130     | [120]   | 80      | 70      | 60      | 50      | 50      |
| 19.               | 40 | 40      | 40      | 40      | 50      | 70      | 80      | [80]    | 90      | 80      | 70      | 60      | 50      |
| 20.               | 40 | 40      | 30      | 30      | 40      | 40      | [40]    | [40]    | 40      | 50      | 40      | 40      | 40      |
| 21.               | —  | —       | —       | —       | —       | —       | —       | —       | [70]    | 60      | 50      | 50      | 50      |
| 22.               | 40 | 30      | 30      | 30      | 30      | 30      | 40      | [50]    | 70      | 90      | 90      | 60      | 50      |
| 23.               | 50 | 40      | 30      | 40      | 40      | 50      | 70      | —       | 60      | 70      | 60      | 60      | 70      |
| 24.               | 30 | 30      | 20      | 30      | 40      | 40      | 50      | [50]    | 50      | 40      | 40      | 50      | $\pm S$ |
| 25.               | 30 | 30      | 30      | 40      | 30      | [40]    | [50]    | 60      | 60      | 50      | 50      | 40      | 50      |
| 26.               | 40 | 30      | 30      | 20      | 30      | 40      | 40      | 40      | [50]    | [50]    | (40)    | 50      | 60      |
| 27.               | 30 | 20      | 30      | 40      | 40      | 30      | 40      | [50]    | 50      | 50      | 50      | 50      | 40      |
| 28.               | 30 | 30      | 20      | 20      | 30      | 30      | [20]    | [40]    | 40      | 60      | $\pm S$ | $\pm S$ | —S      |
| 29.               | 30 | 60      | 30      | 40      | 40      | 50      | 40      | 70      | [70]    | 70      | 40      | 50      | 50      |
| 30.               | 40 | 0       | 90      | 30      | 30      | 50      | 80      | 120     | 90      | —       | 70      | 70      | 60      |
| 31.               | 40 | 40      | 30      | 30      | 50      | 50      | 70      | 60      | 60      | [50]    | 50      | 50      | 50      |
| Means             | 39 | 35      | 34      | 33      | 38      | 51      | 65      | 60      | 64      | 67      | 61      | 58      | 56      |
| Number<br>of days | 27 | 26      | 26      | 26      | 25      | 26      | 25      | 22      | 28      | 29      | 27      | 29      | 27      |

| 13 | 14  | 15  | 16 | 17  | 18  | 19  | 20  | 21  | 22  | 23 | Daily means |
|----|-----|-----|----|-----|-----|-----|-----|-----|-----|----|-------------|
| 50 | 40  | 40  | 40 | 50  | 50  | 50  | 50  | 50  | 40  | 40 | —           |
| 80 | 80  | 50  | 50 | 30  | 40  | 40  | 10  | 30  | 40  | 40 | 54          |
| 50 | 40  | 30  | 40 | 40  | 40  | 40  | 30  | 40  | 40  | 30 | 35          |
| 50 | 40  | 40  | 50 | 40  | —S  | ±S  | —   | —   | —   | —  | —           |
| 80 | 110 | 100 | 70 | 40  | 40  | 40  | 40  | 40  | 30  | 20 | —           |
| 50 | 50  | 50  | 50 | 50  | 40  | 50  | 50  | 50  | 70  | 60 | 48          |
| —  | —   | —   | —  | —   | —   | —   | —   | —   | —   | —  | —           |
| 90 | 100 | ±S  | ±S | ±S  | ±S  | 50  | 50  | 50  | 50  | 40 | —           |
| +S | ±S  | ±S  | ±S | 50  | 40  | 40  | 30  | 50  | 50  | 40 | —           |
| 60 | 50  | 40  | 50 | 80  | 70  | 60  | 50  | 50  | 50  | 40 | —           |
| 70 | 60  | 70  | 80 | 60  | 50  | 50  | 40  | 30  | 30  | 20 | 50          |
| 50 | 40  | 40  | 30 | 20  | 10  | 10  | 40  | 40  | 40  | 50 | 38          |
| 40 | +S  | +S  | ±S | ±S  | —S  | ±S  | ±S  | ±S  | ±S  | 20 | —           |
| 40 | 70  | 50  | 60 | 70  | 70  | 50  | 50  | 40  | 50  | 50 | 51          |
| 40 | 40  | 40  | 40 | 50  | 40  | 50  | 50  | 40  | 50  | 40 | 39          |
| 60 | 50  | 40  | 30 | 50  | 50  | 50  | 50  | 40  | 40  | 40 | —           |
| ±S | ±S  | +S  | +S | +S  | +S  | 150 | 130 | 110 | 100 | 80 | —           |
| 30 | 20  | 30  | 30 | 40  | 40  | 50  | 50  | 50  | 50  | 40 | 56          |
| ±S | —40 | 70  | ±S | ±S  | ±S  | ±S  | —S  | 30  | 40  | 30 | —           |
| 30 | 20  | 30  | 20 | 20  | 20  | 10  | —70 | ±S  | —   | —  | —           |
| 50 | 50  | 50  | 50 | 50  | 40  | 40  | 40  | 50  | 50  | 40 | —           |
| 50 | 50  | 50  | 40 | 40  | 50  | 50  | 50  | 50  | 40  | 40 | 48          |
| 80 | 80  | 70  | 50 | 40  | 50  | 50  | 50  | 50  | 50  | 40 | 54          |
| ±S | 70  | 30  | 50 | 70  | 60  | 50  | 50  | 30  | 40  | 40 | —           |
| 50 | 60  | 70  | 50 | 50  | 50  | 50  | 50  | 50  | 40  | 40 | 47          |
| 60 | 50  | 50  | 50 | 50  | 40  | 40  | 30  | 40  | 30  | 30 | 41          |
| 50 | 50  | 50  | 50 | 50  | 40  | 40  | 50  | 40  | 40  | 30 | 42          |
| ±S | 110 | 70  | 0  | —20 | —10 | 30  | 20  | +S  | +S  | 30 | —           |
| 40 | 40  | +S  | ±S | —S  | 40  | 60  | 50  | 40  | 50  | 90 | —           |
| 70 | 60  | 40  | 40 | 50  | 40  | 40  | 40  | 40  | 30  | 30 | 53          |
| 50 | 50  | 40  | 40 | 40  | 40  | 40  | 40  | 50  | 50  | 40 | 46          |
| 55 | 53  | 50  | 44 | 44  | 42  | 47  | 41  | 45  | 46  | 40 |             |
| 25 | 27  | 25  | 24 | 25  | 25  | 27  | 27  | 26  | 26  | 28 |             |

|                |         |     |         |         |         |             |         |         |         |         |         | September |         |
|----------------|---------|-----|---------|---------|---------|-------------|---------|---------|---------|---------|---------|-----------|---------|
| Hour GMT       | 0       | 1   | 2       | 3       | 4       | 5           | 6       | 7       | 8       | 9       | 10      | 11        | 12      |
| Day            |         |     |         |         |         |             |         |         |         |         |         |           |         |
| 1.             | 30      | 20  | 30      | 40      | 40      | 30          | 40      | 40      | 50      | 40      | 30      | [20]      | 30      |
| 2.             | 30      | 20  | 30      | 30      | 40      | 30          | 60      | [70]    | 50      | 60      | 60      | 60        | 40      |
| 3.             | 60      | 40  | 50      | 40      | 50      | 40          | [40]    | 60      | 70      | 80      | 70      | 80        | 80      |
| 4.             | 40      | 40  | 50      | 50      | 50      | 40          | [90]    | 50      | 50      | 50      | 50      | 50        | 50      |
| 5.             | 50      | 60  | 60      | 50      | 70      | 80          | 70      | 60      | [70]    | 80      | 80      | 80        | 70      |
| 6.             | 40      | 50  | 60      | 60      | 60      | 50          | 50      | —       | [40]    | 30      | 30      | 40        | 30      |
| 7.             | 30      | 30  | 20      | 30      | 40      | 40          | 60      | [50]    | 50      | 50      | 60      | 70        | 60      |
| 8.             | $\pm S$ | 90  | $\pm S$ | $\pm S$ | $\pm S$ | 30          | 80      | 80      | [70]    | 60      | 50      | 60        | 60      |
| 9.             | 10      | 20  | 30      | 30      | $\pm S$ | ( $\pm S$ ) | $\pm S$ | $\pm S$ | $\pm S$ | $\pm S$ | $\pm S$ | —40       | 30      |
| 10.            | 50      | 50  | 60      | 50      | 50      | 50          | 70      | [80]    | 80      | 90      | 90      | —         | —       |
| 11.            | 50      | 40  | 40      | 50      | 50      | 50          | [80]    | 90      | 80      | 60      | 70      | 70        | 70      |
| 12.            | 60      | 50  | 60      | 60      | 50      | 50          | 70      | 80      | [60]    | 70      | 80      | 100       | 120     |
| 13.            | 30      | 20  | 30      | 40      | 60      | 60          | 80      | —       | —       | —       | —       | —         | —       |
| 14.            | 40      | 30  | 30      | 30      | 40      | 40          | 60      | [70]    | —       | —       | —       | —         | —       |
| 15.            | 30      | 50  | 50      | 50      | 60      | 60          | 200     | $\pm S$ | —       | —       | —       | —         | —       |
| 16.            | 30      | 40  | 50      | 40      | 60      | 120         | 150     | 80      | 80      | [80]    | 70      | 70        | 70      |
| 17.            | 50      | 60  | 70      | 110     | 70      | 110         | —       | —       | —       | —       | 70      | 70        | 50      |
| 18.            | 50      | 40  | 40      | 40      | 50      | 50          | 70      | 90      | [60]    | 50      | 40      | 50        | 40      |
| 19.            | 30      | 40  | 40      | 30      | 40      | 40          | 60      | 70      | [60]    | 50      | 50      | 50        | 50      |
| 20.            | 40      | 40  | 40      | 40      | 40      | 50          | —       | —       | —       | —       | —       | —         | —       |
| 21.            | —       | —   | —       | —       | —       | —           | —       | —       | —       | —       | —       | —         | —       |
| 22.            | —       | —   | —       | —       | —       | —           | —       | —       | [80]    | 80      | 70      | 60        | $\pm S$ |
| 23.            | 40      | 40  | 40      | 40      | 40      | 50          | 80      | 130     | 110     | [50]    | 100     | 80        | 50      |
| 24.            | 20      | —80 | —110    | —10     | 80      | 90          | 130     | 130     | $\pm S$ | [120]   | 120     | 110       | 110     |
| 25.            | 30      | 30  | 30      | 50      | 40      | 40          | 50      | 60      | [50]    | 40      | 60      | 50        | 50      |
| 26.            | 10      | —10 | —20     | 20      | —40     | —40         | 10      | [20]    | 30      | 40      | 40      | 40        | 40      |
| 27.            | 50      | 50  | 50      | 40      | 50      | 50          | 80      | 60      | —       | [60]    | 60      | 60        | 80      |
| 28.            | 40      | 40  | 50      | 60      | 70      | 80          | 80      | 80      | 80      | 70      | [90]    | 100       | 80      |
| 29.            | 30      | 40  | 40      | 50      | 50      | 50          | 30      | 100     | [70]    | 70      | 80      | 100       | 110     |
| 30.            | 50      | 50  | 70      | 50      | 50      | 50          | 70      | 90      | 60      | 30      | 20      | [40]      | 40      |
| Means          | 38      | 35  | 37      | 43      | 48      | 51          | 74      | 75      | 64      | 61      | 64      | 61        | 61      |
| Number of days | 27      | 28  | 27      | 27      | 26      | 27          | 25      | 22      | 21      | 23      | 24      | 24        | 23      |

| 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20 | 21  | 22 | 23   | Daily means |
|-----|-----|-----|-----|-----|-----|-----|----|-----|----|------|-------------|
| 50  | 40  | 40  | 40  | 40  | 50  | 50  | 50 | 40  | 30 | 20   | 37          |
| 50  | 70  | 70  | 60  | 70  | 50  | 50  | 50 | 50  | 50 | 50   | 50          |
| 80  | 80  | 80  | 60  | 50  | 50  | 40  | 40 | 40  | 50 | 60   | 58          |
| 50  | 50  | 50  | 50  | 50  | 40  | 50  | 50 | 50  | 50 | 50   | 50          |
| 80  | 70  | 60  | 60  | 70  | 60  | 50  | 60 | 50  | 50 | 50   | 64          |
| 30  | 20  | 20  | 40  | 40  | 50  | 60  | 50 | 40  | 40 | 40   | 43          |
| 70  | 70  | 70  | 30  | 30  | 40  | 30  | 30 | 30  | —S | (±S) | —           |
| 70  | 60  | 60  | 40  | 40  | ±S  | —   | ±S | —50 | 20 | 20   | —           |
| 50  | 50  | 90  | 110 | 120 | 140 | 110 | 90 | 70  | 90 | 70   | —           |
| 100 | 100 | 90  | 80  | 70  | 70  | 70  | 70 | 70  | 60 | 50   | 71          |
| 70  | 60  | 70  | 70  | 50  | 60  | 70  | 80 | 80  | 50 | 50   | 63          |
| 110 | 100 | 100 | 90  | 70  | 50  | 50  | 40 | 40  | 50 | 40   | 69          |
| 70  | 50  | 50  | 60  | 50  | 50  | 70  | 60 | 50  | 50 | 50   | —           |
| 80  | 70  | 70  | 60  | 70  | 60  | 50  | 40 | 40  | 40 | 40   | —           |
| 50  | 50  | 60  | 50  | 50  | 10  | 10  | 30 | 50  | 30 | 30   | —           |
| 60  | 60  | 70  | 70  | 50  | 60  | 60  | 60 | 70  | 60 | 60   | 68          |
| 50  | 50  | 60  | 70  | 80  | 80  | 70  | 60 | 50  | 50 | 50   | —           |
| 50  | 50  | 50  | 50  | 50  | 50  | 50  | 50 | 40  | 20 | 20   | 48          |
| 50  | 50  | 50  | 50  | 50  | 50  | 40  | 40 | 40  | 40 | 40   | 46          |
| —   | —   | —   | —   | —   | —   | —   | —  | —   | —  | —    | —           |
| —   | —   | —   | —   | —   | —   | —   | —  | —   | —  | —    | —           |
| —   | —   | —   | —   | 20  | 20  | 20  | 20 | 30  | 10 | 30   | —           |
| 70  | 90  | 100 | 110 | 80  | 80  | 50  | 30 | +S  | —S | ±S   | —           |
| 110 | 90  | 60  | 60  | 60  | 40  | 40  | 40 | 30  | 30 | 30   | 57          |
| 50  | 50  | 50  | 40  | 20  | 0   | 30  | 50 | 0   | 10 | 10   | 37          |
| 50  | 40  | 50  | 30  | 30  | 40  | 50  | 60 | 70  | 80 | 70   | 30          |
| 90  | 90  | 90  | 70  | 50  | 40  | 50  | 50 | 40  | 40 | 30   | 58          |
| 90  | 100 | 90  | 80  | 90  | 80  | 70  | 50 | 40  | 50 | 30   | 70          |
| 110 | 100 | 120 | 110 | 110 | 80  | 60  | 70 | 70  | 50 | 50   | 73          |
| 40  | 50  | 40  | 40  | 50  | 50  | 50  | 60 | 50  | 60 | 50   | 50          |
| 68  | 65  | 67  | 62  | 58  | 54  | 52  | 51 | 44  | 45 | 42   |             |
| 27  | 27  | 27  | 27  | 28  | 27  | 27  | 27 | 27  | 26 | 26   |             |

October

| Hour GMT<br>Day   | 0   | 1   | 2   | 3   | 4   | 5   | 6    | 7   | 8   | 9    | 10    | 11    | 12    |
|-------------------|-----|-----|-----|-----|-----|-----|------|-----|-----|------|-------|-------|-------|
| 1.                | 50  | 70  | 60  | 60  | 70  | 50  | 50   | 70  | 100 | —    | —     | —     | —     |
| 2.                | 120 | 0   | 10  | 50  | 60  | 110 | 130  | +S  | +S  | 150  | [130] | 80    | 70    |
| 3.                | 50  | 50  | 50  | 60  | 60  | 60  | 60   | 180 | 100 | [70] | 80    | 80    | 80    |
| 4.                | 20  | 40  | 50  | 60  | 70  | 80  | 120  | 90  | —   | [60] | 20    | 10    | 40    |
| 5.                | 40  | 50  | 10  | —10 | 0   | 20  | 0    | 20  | 30  | 10   | 50    | —     | —     |
| 6.                | 110 | 90  | 90  | 90  | 100 | 180 | 140  | 70  | 60  | [70] | —     | —     | —     |
| 7.                | 80  | 20  | —20 | —20 | 0   | 20  | 50   | 80  | 90  | [70] | —     | —     | 60    |
| 8.                | 60  | 50  | 20  | —40 | 10  | 30  | 60   | 50  | 70  | 60   | 10    | +S    | 0     |
| 9.                | 70  | 60  | 80  | 80  | 150 | 110 | 70   | +S  | 150 | 60   | —     | —     | —     |
| 10.               | —   | —   | —   | —   | —   | —   | —    | —   | —   | —    | 150   | 120   | 100   |
| 11.               | 100 | 110 | 90  | 90  | 100 | 90  | 130  | 180 | —   | [80] | +S    | 70    | 60    |
| 12.               | 220 | 160 | 140 | 130 | 140 | 220 | 190  | 210 | 130 | —    | —     | 180   | 90    |
| 13.               | 90  | 90  | 90  | 80  | 70  | 80  | 100  | 60  | 40  | [70] | [40]  | 30    | 20    |
| 14.               | 10  | 0   | 0   | —   | +S  | +S  | +S   | +S  | +S  | +S   | +S    | +S    | 180   |
| 15.               | 60  | 80  | 90  | 50  | +S  | +S  | +S   | 60  | 80  | 80   | 70    | [50]  | 60    |
| 16.               | 40  | 40  | 50  | 40  | 40  | 40  | 70   | 60  | 60  | 80   | 80    | 80    | 90    |
| 17.               | 20  | 10  | 20  | 40  | 40  | 50  | 80   | 70  | 30  | 40   | 40    | 60    | 70    |
| 18.               | 40  | 20  | 20  | 30  | +S  | +S  | +S   | +S  | —   | +S   | +S    | 70    | 30    |
| 19.               | 100 | 70  | —30 | 20  | 40  | 30  | 30   | 20  | 40  | 40   | 40    | [90]  | [100] |
| 20.               | 10  | 40  | 100 | 120 | 80  | 100 | 90   | 100 | 130 | 140  | 120   | [100] | 110   |
| 21.               | 60  | 30  | 20  | 0   | —10 | 0   | 0    | 30  | 10  | —10  | [—10] | 30    | —20   |
| 22.               | —40 | —50 | —50 | —40 | —30 | —20 | —40  | —20 | —50 | —90  | —40   | —70   | [—20] |
| 23.               | —20 | —40 | —30 | —90 | —50 | —60 | —100 | 40  | 40  | 10   | [—30] | —20   | 0     |
| 24.               | 20  | 40  | 40  | 60  | 80  | 80  | 80   | 30  | 70  | 80   | [100] | 90    | 90    |
| 25.               | 40  | 30  | 30  | 30  | 20  | 30  | 30   | 40  | —   | —    | [10]  | 30    | 40    |
| 26.               | 60  | 50  | +S  | +S  | 230 | 140 | 100  | 120 | 90  | 80   | 90    | [90]  | 90    |
| 27.               | 30  | 30  | 60  | 60  | 70  | 80  | 80   | 80  | 130 | 90   | [80]  | —     | —     |
| 28.               | —   | —   | —   | —   | —   | —   | —    | —   | —   | —    | —     | —     | —     |
| 29.               | —   | —   | —   | —   | —   | —   | —    | —   | —   | —    | —     | —     | —     |
| 30.               | —   | —   | —   | —   | —   | —   | —    | —   | —   | —    | —     | —     | —     |
| 31.               | —   | —   | —   | —   | —   | —   | —    | —   | —   | —    | —     | —     | —     |
| Means             | 55  | 44  | 39  | 40  | 58  | 66  | 66   | 75  | 70  | 59   | 54    | 62    | 61    |
| Number<br>of days | 26  | 26  | 25  | 24  | 23  | 23  | 23   | 22  | 20  | 21   | 19    | 19    | 22    |

| 13   | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | Daily means |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------|
| —    | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —           |
| 80   | 90  | 60  | 40  | 40  | 50  | 10  | —10 | —10 | —10 | 50  | —           |
| 70   | 60  | 60  | 50  | 50  | 40  | 30  | 40  | 40  | 30  | —20 | 60          |
| 10   | 20  | 0   | 30  | 60  | —20 | 60  | 90  | 40  | 70  | 20  | 45          |
| —    | —   | —   | —   | —   | —   | —   | —   | —   | —   | 130 | —           |
| —    | —   | —   | —   | —   | —   | —   | —   | 180 | 80  | 70  | —           |
| 70   | 60  | 60  | 50  | 50  | 60  | 60  | 50  | 60  | 40  | 70  | —           |
| 90   | 80  | 90  | 110 | 100 | 80  | 70  | 60  | 70  | 50  | 70  | 54          |
| —    | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —           |
| 90   | 100 | 120 | 120 | 110 | 90  | 90  | 90  | 110 | 140 | 110 | —           |
| ±S   | ±S  | ±S  | ±S  | 40  | 60  | 30  | 30  | 40  | 30  | —   | —           |
| 70   | 100 | 140 | 110 | 110 | 80  | 80  | 100 | 90  | 80  | 80  | —           |
| 0    | 10  | —10 | 0   | 20  | 40  | 70  | 50  | 40  | 10  | 30  | 47          |
| 120  | 100 | 80  | 90  | 100 | 90  | 70  | 70  | 40  | ±S  | 80  | —           |
| 80   | 60  | 50  | 50  | 50  | 60  | 80  | 90  | 70  | 50  | 50  | —           |
| [90] | 90  | 80  | 80  | 90  | 120 | 90  | 70  | 50  | 40  | 30  | 66          |
| 70   | 70  | 70  | 80  | 100 | 100 | 80  | 70  | 70  | 50  | 40  | 57          |
| 40   | 60  | 70  | 60  | 40  | 70  | 90  | 110 | 90  | 80  | 70  | —           |
| 100  | 70  | 80  | 160 | 160 | 110 | 90  | 90  | 90  | 10  | —10 | 64          |
| 110  | 110 | 90  | 60  | 60  | 70  | 80  | 70  | 40  | 30  | 40  | 83          |
| —20  | —10 | 10  | —10 | —10 | —50 | 0   | 10  | —10 | 0   | 10  | 2           |
| 10   | 0   | 10  | 0   | 0   | 10  | 0   | 10  | —10 | —50 | 10  | —24         |
| 10   | 30  | 40  | 40  | 80  | 60  | 100 | 90  | 100 | 80  | 40  | 13          |
| 100  | 80  | 60  | 80  | 60  | 80  | 90  | 90  | 80  | 60  | 60  | 71          |
| 60   | 70  | 90  | 100 | 80  | 40  | 40  | 20  | 20  | 60  | 60  | —           |
| 90   | 100 | 90  | 70  | 80  | 90  | 60  | 30  | 20  | 30  | 10  | —           |
| —    | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —           |
| —    | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —           |
| —    | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —           |
| —    | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —           |
| —    | —   | —   | —   | —   | —   | —   | —   | —   | —   | —   | —           |
| 64   | 64  | 64  | 65  | 67  | 60  | 62  | 60  | 57  | 44  | 48  |             |
| 21   | 21  | 21  | 21  | 22  | 22  | 22  | 22  | 23  | 22  | 23  |             |

November

| Hour GMT<br>Day   | 0   | 1   | 2   | 3    | 4    | 5    | 6   | 7   | 8   | 9    | 10    | 11  | 12  |
|-------------------|-----|-----|-----|------|------|------|-----|-----|-----|------|-------|-----|-----|
| 1.                | —   | —   | —   | —    | —    | —    | —   | —   | —   | —    | —     | —   | —   |
| 2.                | —   | —   | —   | —    | —    | —    | —   | —   | —   | —    | —     | —   | —   |
| 3.                | —   | —   | —   | —    | —    | —    | —   | —   | —   | —    | —     | —   | —   |
| 4.                | —   | —   | —   | —    | —    | —    | —   | —   | —   | —    | —     | —   | —   |
| 5.                | —   | —   | —   | —    | —    | —    | —   | —   | —   | —    | —     | —   | —   |
| 6.                | —   | —   | —   | —    | —    | —    | —   | —   | —   | —    | —     | —   | —   |
| 7.                | —   | —   | —   | —    | —    | —    | —   | —   | —   | —    | —     | —   | —   |
| 8.                | —   | —   | —   | —    | —    | —    | —   | —   | —   | —    | —     | —   | —   |
| 9.                | —   | —   | —   | —    | —    | —    | —   | —   | —   | —    | —     | —   | —   |
| 10.               | —   | —   | —   | —    | —    | —    | —   | —   | —   | —    | —     | —   | —   |
| 11.               | —   | —   | —   | —    | —    | —    | —   | —   | —   | —    | —     | —   | 130 |
| 12.               | +S  | 50  | 70  | 80   | 50   | 60   | 50  | 20  | 0   | 0    | 30    | 60  | —   |
| 13.               | —60 | —70 | —40 | —30  | —60  | 10   | 20  | 70  | —   | —    | —     | —   | —   |
| 14.               | ±S  | ±S  | ±S  | ±S   | —S   | —S   | —20 | 0   | —50 | —10  | 10    | —60 | —S  |
| 15.               | 60  | 50  | 50  | 50   | 50   | 50   | 60  | 70  | —   | [80] | 80    | 70  | —   |
| 16.               | 30  | 50  | 30  | 30   | 60   | 60   | 100 | 80  | 100 | 100  | 70    | 50  | —   |
| 17.               | —   | —   | —   | —    | —    | —    | —   | —   | —   | —    | —     | —   | —   |
| 18.               | —   | —   | —   | —    | —    | —    | —   | —   | —   | —    | —     | 80  | 70  |
| 19.               | 50  | 30  | 30  | 30   | 40   | 30   | 70  | 200 | 160 | 120  | 160   | 130 | —   |
| 20.               | 80  | 60  | 60  | 60   | 50   | 90   | 110 | —   | +S  | 110  | [50]  | 50  | 60  |
| 21.               | 50  | 50  | 60  | 90   | 80   | 60   | 60  | 90  | 80  | 80   | [90]  | 90  | 60  |
| 22.               | —40 | —40 | —30 | —40  | —50  | —60  | —60 | —   | —   | —30  | —30   | —10 | 40  |
| 23.               | 100 | 110 | 130 | 130  | 150  | 160  | 110 | 80  | 70  | 10   | 40    | 30  | 30  |
| 24.               | 20  | —30 | —40 | —80  | 10   | 0    | —10 | 100 | 140 | 110  | [110] | 120 | 130 |
| 25.               | 60  | 50  | 50  | 40   | 30   | 60   | 50  | 100 | 120 | 70   | [80]  | 20  | —20 |
| 26.               | 210 | 130 | 160 | 160  | +S   | 210  | +S  | +S  | 80  | 70   | [80]  | 30  | 60  |
| 27.               | 50  | 30  | 10  | —20  | 40   | —20  | —20 | —50 | —10 | —10  | [10]  | —10 | 0   |
| 28.               | 70  | 70  | 50  | 30   | 60   | 70   | 20  | 0   | 60  | 60   | [40]  | 30  | 100 |
| 29.               | 40  | 40  | 60  | 70   | 60   | 40   | 60  | 60  | —   | —    | 60    | 50  | 50  |
| 30.               | 10  | —10 | —70 | —160 | —160 | —110 | 10  | —30 | —20 | +S   | [30]  | —10 | —40 |
| Means             | 49  | 36  | 36  | 28   | 27   | 46   | 38  | 56  | 61  | 54   | 57    | 42  | 52  |
| Number<br>of days | 15  | 16  | 16  | 16   | 15   | 16   | 16  | 14  | 12  | 14   | 16    | 17  | 13  |



| December       |      |      |      |      |     |     |     |       |      |       |       |       |     |
|----------------|------|------|------|------|-----|-----|-----|-------|------|-------|-------|-------|-----|
| Hour GMT       | 0    | 1    | 2    | 3    | 4   | 5   | 6   | 7     | 8    | 9     | 10    | 11    | 12  |
| Day            |      |      |      |      |     |     |     |       |      |       |       |       |     |
| 1.             | —170 | —50  | —10  | —40  | 0   | 50  | 70  | 130   | 120  | 150   | [140] | 120   | 120 |
| 2.             | 40   | 50   | 40   | 60   | 70  | 80  | 70  | 90    | 120  | 120   | [120] | 100   | 90  |
| 3.             | 40   | 50   | 50   | 150  | 160 | 110 | 140 | 170   | +S   | +S    | +S    | +S    | +S  |
| 4.             | +S   | 200  | 200  | 140  | 120 | 110 | 100 | 60    | [30] | 30    | 10    | 30    | 30  |
| 5.             | —40  | —90  | —40  | 30   | 30  | 90  | 80  | 120   | 40   | [—10] | —20   | 50    | 50  |
| 6.             | 20   | 20   | —20  | 50   | —50 | —40 | 10  | —10   | —    | —     | —30   | —60   | —50 |
| 7.             | 60   | 40   | 50   | 40   | 50  | 30  | 50  | 50    | 70   | 60    | [30]  | 40    | 40  |
| 8.             | —50  | —30  | —10  | 30   | 30  | 30  | 50  | 50    | 60   | 60    | [70]  | —     | —   |
| 9.             | —40  | —10  | —20  | 20   | 80  | —   | —   | 80    | 70   | —50   | [0]   | 50    | —50 |
| 10.            | 60   | 10   | 40   | 50   | 30  | 50  | 10  | 40    | 50   | 60    | [60]  | 70    | 70  |
| 11.            | ±S   | ±S   | ±S   | ±S   | +S  | —10 | 40  | 80    | 110  | 90    | [80]  | 90    | 70  |
| 12.            | 50   | 30   | 30   | 50   | 50  | 40  | 70  | 110   | 100  | 150   | 120   | [120] | 100 |
| 13.            | 30   | 30   | —10  | —10  | 0   | 40  | 60  | 70    | —    | —     | 90    | 90    | 80  |
| 14.            | 90   | 120  | 110  | 70   | 10  | —10 | 10  | 40    | 0    | 60    | [30]  | 40    | 80  |
| 15.            | 60   | 50   | 40   | 40   | 60  | 40  | 10  | 40    | —    | —50   | 0     | 20    | 0   |
| 16.            | 40   | 50   | 60   | 80   | 120 | 150 | +S  | +S    | +S   | [140] | 220   | 150   | 160 |
| 17.            | 70   | 70   | 70   | 30   | 60  | 80  | 130 | [160] | 80   | 70    | 70    | 50    | 90  |
| 18.            | 30   | 50   | 40   | 30   | 40  | 30  | 50  | 80    | 60   | 40    | ±S    | ±S    | ±S  |
| 19.            | —10  | 50   | +S   | ±S   | —30 | 10  | ±S  | —70   | 70   | [160] | 120   | 80    | +S  |
| 20.            | 100  | 100  | 100  | 70   | 80  | 50  | 50  | —     | —    | 80    | 130   | 150   | 130 |
| 21.            | 90   | 120  | 90   | 80   | 80  | 0   | 40  | 100   | 90   | 0     | 30    | —S    | —S  |
| 22.            | 130  | 90   | 70   | 50   | 50  | +S  | +S  | +S    | +S   | 200   | [120] | +S    | ±S  |
| 23.            | 40   | +S   | 10   | 30   | 60  | 110 | 50  | 110   | 80   | [110] | 150   | 110   | 140 |
| 24.            | —50  | —170 | —170 | —160 | 10  | —20 | ±S  | —S    | 60   | 20    | 50    | 50    | 50  |
| 25.            | 30   | 20   | 30   | 30   | 50  | 50  | 70  | 80    | 90   | 90    | [110] | 80    | 80  |
| 26.            | —40  | —30  | —20  | —20  | —20 | —20 | 0   | —10   | 10   | 40    | [50]  | 60    | 110 |
| 27.            | 50   | 50   | 60   | 80   | 80  | 70  | 70  | [80]  | —    | 100   | 100   | 80    | 110 |
| 28.            | +S   | 50   | ±S   | 50   | 30  | 10  | 10  | 50    | 70   | ±S    | ±S    | ±S    | 40  |
| 29.            | 50   | 60   | 50   | 40   | 40  | 50  | 40  | 60    | 70   | 90    | 80    | 30    | 40  |
| 30.            | 0    | 20   | 30   | 20   | 30  | 30  | —20 | —S    | —S   | 100   | [100] | 100   | 100 |
| 31.            | 60   | 70   | 60   | 80   | 100 | 70  | 70  | 100   | 60   | [80]  | [110] | 90    | 100 |
| Means          | 27   | 35   | 33   | 40   | 47  | 44  | 51  | 72    | 69   | 74    | 78    | 72    | 71  |
| Number of days | 28   | 29   | 28   | 29   | 30  | 29  | 26  | 26    | 22   | 27    | 28    | 25    | 25  |

| 13   | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21   | 22  | 23  | Daily means |
|------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-------------|
| 170  | 120 | 70  | 20  | 40  | 50  | 30  | -50 | -10  | -10 | 0   | 44          |
| 110  | 100 | 100 | 110 | 130 | 130 | 110 | 90  | 80   | 80  | 50  | 89          |
| +S   | +S  | +S  | +S  | +S  | +S  | +S  | +S  | 210  | +S  | +S  | —           |
| 0    | 10  | 20  | 20  | 10  | 10  | -10 | 30  | -10  | 0   | -10 | 47          |
| 40   | 30  | 70  | 60  | 10  | 40  | 10  | 30  | -10  | -30 | -20 | 24          |
| -60  | -40 | -50 | -50 | 0   | -40 | 10  | 40  | 50   | 40  | 20  | —           |
| 10   | 40  | 30  | 20  | 10  | 10  | 10  | -10 | -50  | -30 | -50 | 27          |
| 220  | 200 | +S  | 160 | 220 | +S  | 120 | 90  | 30   | -40 | -10 | —           |
| -20  | 50  | +S  | 170 | 30  | +S  | +S  | +S  | +S   | +S  | 50  | —           |
| 70   | 70  | 80  | 80  | 30  | 70  | 80  | 30  | +S   | +S  | +S  | —           |
| 70   | 70  | 70  | 110 | 100 | 110 | 80  | 100 | 80   | 70  | 50  | —           |
| 0    | -20 | -40 | -50 | -50 | -10 | -20 | -20 | 20   | 0   | 10  | 35          |
| 50   | 40  | 30  | 0   | 80  | 120 | 70  | 120 | 50   | 90  | 90  | —           |
| 120  | 130 | 130 | 140 | 140 | 140 | 120 | 90  | 50   | 40  | 40  | 75          |
| -10  | -10 | -60 | -30 | -20 | -50 | 30  | -60 | 10   | 20  | 10  | 6           |
| 150  | 150 | 130 | 130 | 120 | 120 | +S  | +S  | 120  | 110 | 80  | —           |
| 110  | 80  | 70  | 100 | 100 | 90  | 60  | 20  | -50  | -40 | 10  | 66          |
| +S   | +S  | +S  | +S  | +S  | 120 | 150 | 130 | 100  | 50  | -10 | —           |
| 120  | 40  | 10  | 0   | 0   | 10  | 40  | 60  | 90   | 110 | 110 | —           |
| 60   | 40  | 60  | 40  | 40  | -30 | -10 | 20  | 10   | 40  | 30  | —           |
| -S   | -S  | 90  | 170 | +S  | 60  | 50  | 50  | 60   | 100 | 130 | —           |
| +S   | 0   | 100 | +S  | +S  | +S  | -S  | -S  | -170 | -70 | 120 | —           |
| 150  | 120 | 130 | 120 | 130 | 140 | 110 | 70  | 50   | 50  | -10 | 90          |
| -S   | 30  | 0   | -20 | -20 | -20 | -50 | -S  | -20  | 10  | 20  | —           |
| 60   | 60  | 50  | 50  | 0   | -20 | -20 | -40 | -10  | -30 | -40 | 36          |
| 110  | 80  | 60  | 80  | 100 | 80  | 90  | 90  | 70   | 70  | 90  | 43          |
| 110  | 120 | 130 | 140 | 120 | +S  | 120 | 100 | 70   | 90  | 30  | 89          |
| 50   | 70  | 30  | 30  | —   | —   | 80  | 90  | 90   | 70  | 60  | —           |
| [50] | 50  | 40  | 50  | 50  | 50  | 40  | 40  | 40   | 30  | 20  | 48          |
| 100  | 100 | 100 | 120 | 140 | 150 | 140 | 140 | 100  | 80  | 90  | —           |
| 100  | 90  | 100 | 100 | 110 | 110 | +S  | +S  | +S   | 150 | 110 | —           |
| 75   | 67  | 59  | 69  | 64  | 58  | 54  | 50  | 38   | 38  | 37  |             |
| 26   | 28  | 27  | 28  | 26  | 25  | 25  | 25  | 28   | 28  | 29  |             |

*Hourly means of the quantities of positive and negative*

| Hour GMT<br>Day |   | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 |
|-----------------|---|----|----|----|----|----|----|----|----|----|----|----|----|
| January         | + | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 5  | 0  | 5  |
|                 | — | 0  | 0  | 0  | 0  | 3  | 0  | 0  | 1  | 5  | 4  | 0  | 1  |
| February        | + | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
|                 | — | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| March           | + | 1  | 0  | 6  | 11 | 9  | 0  | 0  | 0  | 2  | 0  | 0  | 29 |
|                 | — | 0  | 1  | 1  | 1  | 16 | 0  | 0  | 0  | 3  | 0  | 5  | 11 |
| April           | + | 12 | 20 | 0  | 0  | 3  | 12 | 1  | 12 | 11 | 0  | 1  | 5  |
|                 | — | 52 | 12 | 2  | 0  | 10 | 14 | 6  | 1  | 3  | 5  | 23 | 8  |
| May             | + | 15 | 10 | 6  | 0  | 0  | 16 | 0  | 0  | 4  | 0  | 0  | 0  |
|                 | — | 6  | 9  | 11 | 0  | 0  | 18 | 0  | 0  | 14 | 20 | 0  | 1  |
| June            | + | 0  | 5  | 0  | 0  | 1  | 4  | 0  | 0  | 13 | 33 | 0  | 1  |
|                 | — | 0  | 0  | 0  | 0  | 0  | 5  | 0  | 0  | 23 | 60 | 0  | 0  |
| July            | + | 0  | 0  | 2  | 0  | 0  | 9  | 6  | 0  | 31 | 11 | 52 | 12 |
|                 | — | 1  | 0  | 4  | 0  | 6  | 13 | 14 | 0  | 10 | 21 | 43 | 0  |
| August          | + | 0  | 0  | 6  | 0  | 3  | 3  | 20 | 28 | 6  | 0  | 2  | 6  |
|                 | — | 0  | 1  | 1  | 0  | 2  | 10 | 20 | 32 | 5  | 0  | 10 | 14 |
| September       | + | 12 | 0  | 7  | 30 | 9  | 0  | 20 | 20 | 27 | 1  | 0  | 0  |
|                 | — | 22 | 0  | 11 | 6  | 13 | 0  | 21 | 30 | 5  | 0  | 0  | 0  |
| October         | + | 0  | 0  | 0  | 0  | 0  | 23 | 0  | 2  | 1  | 11 | 15 | 22 |
|                 | — | 0  | 0  | 0  | 0  | 0  | 5  | 0  | 44 | 0  | 15 | 17 | 10 |
| November        | + | 0  | 13 | 12 | 1  | 0  | 0  | 0  | 1  | 0  | 0  | 0  | 0  |
|                 | — | 2  | 2  | 17 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| December        | + | 22 | 13 | 13 | 24 | 0  | 0  | 0  | 0  | 0  | 3  | 5  | 39 |
|                 | — | 11 | 29 | 33 | 1  | 0  | 0  | 2  | 0  | 0  | 16 | 10 | 13 |

*charges transported by point-discharge for each month*

| 12 | 13 | 14 | 15  | 16 | 17 | 18 | 19 | 20  | 21 | 22 | 23 | Means |
|----|----|----|-----|----|----|----|----|-----|----|----|----|-------|
| 0  | 0  | 0  | 2   | 0  | 0  | 0  | 0  | 0   | 0  | 0  | 0  | 0.5   |
| 1  | 1  | 4  | 4   | 0  | 0  | 0  | 0  | 0   | 0  | 0  | 0  | 1.5   |
| 0  | 0  | 0  | 0   | 0  | 0  | 0  | 0  | 0   | 0  | 0  | 0  | 0     |
| 0  | 0  | 0  | 0   | 0  | 0  | 0  | 0  | 0   | 0  | 0  | 0  | 0     |
| 5  | 0  | 1  | 0   | 0  | 1  | 0  | 0  | 0   | 0  | 0  | 0  | 2.7   |
| 0  | 0  | 0  | 0   | 0  | 0  | 0  | 0  | 0   | 0  | 0  | 0  | 1.6   |
| 2  | 5  | 0  | 0   | 0  | 0  | 0  | 0  | 0   | 36 | 47 | 0  | 7.0   |
| 19 | 0  | 0  | 0   | 0  | 0  | 1  | 0  | 0   | 13 | 28 | 39 | 9.8   |
| 0  | 1  | 18 | 7   | 5  | 0  | 0  | 0  | 0   | 0  | 0  | 0  | 3.4   |
| 1  | 70 | 5  | 10  | 2  | 0  | 0  | 0  | 0   | 0  | 0  | 0  | 7.0   |
| 5  | 10 | 11 | 80  | 15 | 45 | 25 | 55 | 104 | 5  | 11 | 17 | 18.3  |
| 13 | 12 | 11 | 151 | 23 | 15 | 96 | 45 | 20  | 12 | 34 | 1  | 21.7  |
| 13 | 0  | 16 | 40  | 25 | 12 | 19 | 23 | 17  | 0  | 2  | 0  | 12.1  |
| 2  | 0  | 0  | 16  | 19 | 6  | 39 | 26 | 3   | 0  | 2  | 0  | 9.4   |
| 5  | 17 | 2  | 52  | 21 | 27 | 4  | 18 | 0   | 30 | 25 | 0  | 11.5  |
| 22 | 0  | 14 | 5   | 55 | 48 | 11 | 48 | 12  | 7  | 0  | 0  | 13.2  |
| 0  | 0  | 0  | 0   | 0  | 0  | 0  | 0  | 0   | 0  | 0  | 2  | 5.3   |
| 0  | 0  | 0  | 0   | 0  | 0  | 0  | 0  | 0   | 0  | 0  | 44 | 6.3   |
| 1  | 48 | 8  | 1   | 2  | 2  | 19 | 11 | 0   | 0  | 0  | 0  | 6.9   |
| 0  | 28 | 13 | 1   | 6  | 2  | 18 | 17 | 0   | 0  | 0  | 0  | 7.3   |
| 0  | 0  | 0  | 0   | 0  | 0  | 0  | 0  | 0   | 0  | 0  | 0  | 1.3   |
| 0  | 0  | 0  | 0   | 0  | 0  | 0  | 0  | 0   | 0  | 0  | 0  | 0.9   |
| 31 | 8  | 21 | 24  | 6  | 3  | 2  | 5  | 6   | 15 | 28 | 8  | 11.7  |
| 11 | 83 | 66 | 14  | 15 | 1  | 1  | 7  | 1   | 27 | 24 | 38 | 17.0  |